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* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|----|-----------------|--|
| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | JUL 02 | LMEDLINE coverage updated |
| NEWS | 3 | JUL 02 | SCISEARCH enhanced with complete author names |
| NEWS | 4 | JUL 02 | CHEMCATS accession numbers revised |
| NEWS | 5 | JUL 02 | CA/CAPplus enhanced with utility model patents from China |
| NEWS | 6 | JUL 16 | CAPplus enhanced with French and German abstracts |
| NEWS | 7 | JUL 18 | CA/CAPplus patent coverage enhanced |
| NEWS | 8 | JUL 26 | USPATFULL/USPAT2 enhanced with IPC reclassification |
| NEWS | 9 | JUL 30 | USGENE now available on STN |
| NEWS | 10 | AUG 06 | CAS REGISTRY enhanced with new experimental property tags |
| NEWS | 11 | AUG 06 | FSTA enhanced with new thesaurus edition |
| NEWS | 12 | AUG 13 | CA/CAPplus enhanced with additional kind codes for granted patents |
| NEWS | 13 | AUG 20 | CA/CAPplus enhanced with CAS indexing in pre-1907 records |
| NEWS | 14 | AUG 27 | Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB |
| NEWS | 15 | AUG 27 | USPATOLD now available on STN |
| NEWS | 16 | AUG 28 | CAS REGISTRY enhanced with additional experimental spectral property data |
| NEWS | 17 | SEP 07 | STN AnaVist, Version 2.0, now available with Derwent World Patents Index |
| NEWS | 18 | SEP 13 | FORIS renamed to SOFIS |
| NEWS | 19 | SEP 13 | INPADOCDB enhanced with monthly SDI frequency |
| NEWS | 20 | SEP 17 | CA/CAPplus enhanced with printed CA page images from 1967-1998 |
| NEWS | 21 | SEP 17 | CAPplus coverage extended to include traditional medicine patents |
| NEWS | 22 | SEP 24 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS | 23 | OCT 02 | CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt |
| NEWS | 24 | OCT 19 | BEILSTEIN updated with new compounds |
| NEWS | 25 | NOV 15 | Derwent Indian patent publication number format enhanced |
| NEWS | 26 | NOV 19 | WPIX enhanced with XML display format |
| NEWS EXPRESS | 19 | SEPTEMBER 2007: | CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007. |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | | | Welcome Banner and News Items |
| NEWS IPC8 | | | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007

| | | |
|----------------------|------------|---------|
| => file reg | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 NOV 2007 HIGHEST RN 956075-61-9
DICTIONARY FILE UPDATES: 27 NOV 2007 HIGHEST RN 956075-61-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

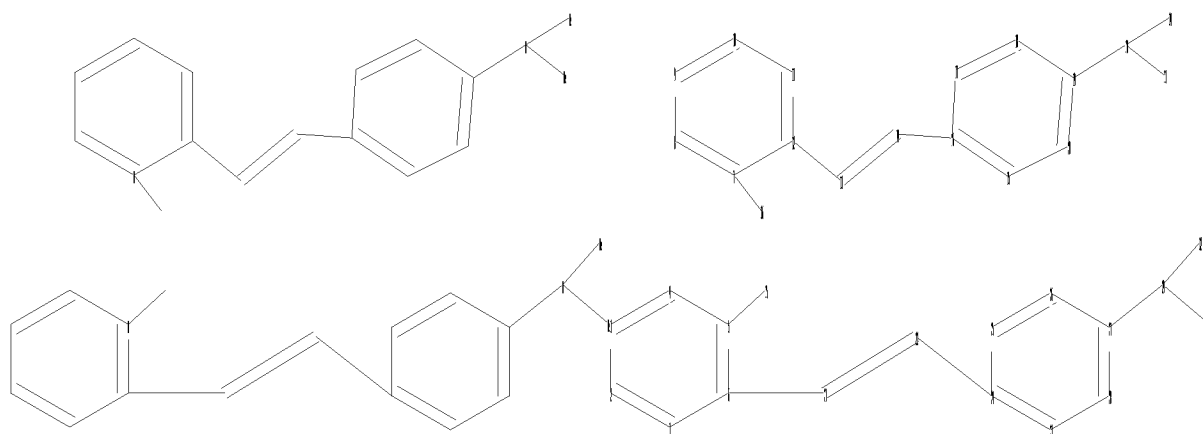
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10814428c.str



chain nodes :

13 14 21 22 29 30 31 32 33 34 35 36

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 15 16 17 18 19 20 23 24 25 26 27
28

chain bonds :

5-35 6-21 7-36 12-13 13-14 14-16 19-30 21-22 22-24 27-29 29-31 29-32
30-33 30-34

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 15-16 15-20
16-17 17-18 18-19 19-20 23-24 23-28 24-25 25-26 26-27 27-28

exact/norm bonds :

5-35 6-21 7-36 12-13 13-14 14-16 19-30 21-22 22-24 27-29

exact bonds :

29-31 29-32 30-33 30-34

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 15-16 15-20
16-17 17-18 18-19 19-20 23-24 23-28 24-25 25-26 26-27 27-28

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS

L1 STRUCTURE UPLOADED

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SAMPLE SCREEN SEARCH COMPLETED - 7 TO ITERATE

100.0% PROCESSED

7 ITERATIONS

1 ANSWERS

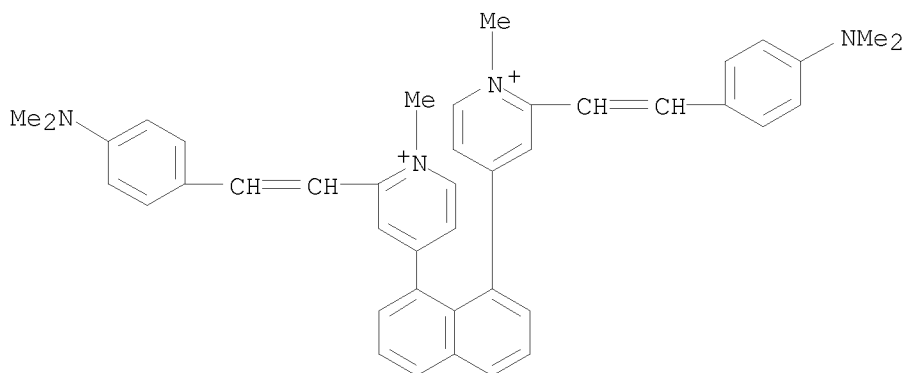
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 7 TO 298
 PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 188821-10-5 REGISTRY
 ED Entered STN: 06 May 1997
 CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-methyl- (CA INDEX NAME)
 MF C42 H42 N4
 CI COM
 SR CA



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 SEARCH TIME: 00.00.01

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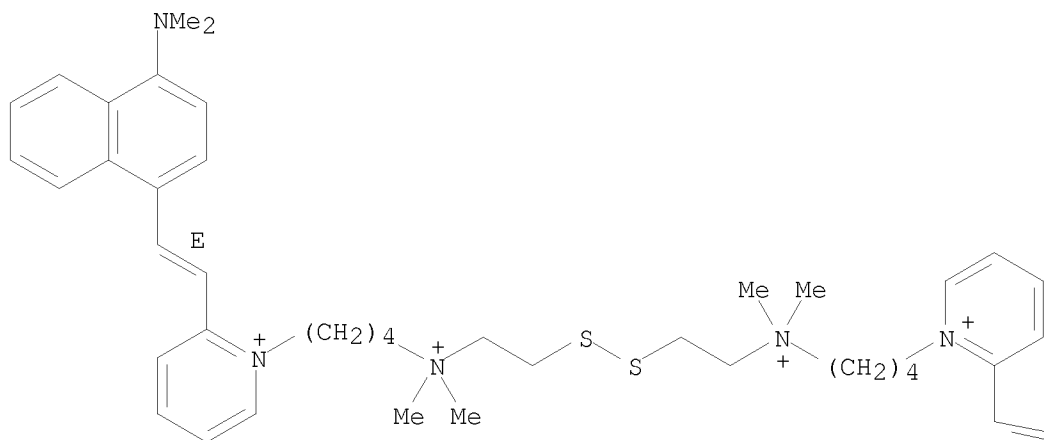
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L3 ANSWER 1 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 951260-27-8 REGISTRY
 ED Entered STN: 23 Oct 2007
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 MF C54 H72 N6 S2 . 4 Br
 SR CA
 LC STN Files: CA, CAPLUS

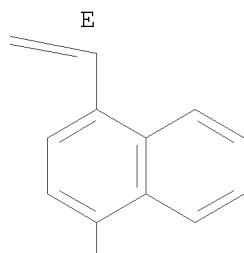
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Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



PAGE 2-A

● 4 Br⁻

PAGE 2-B

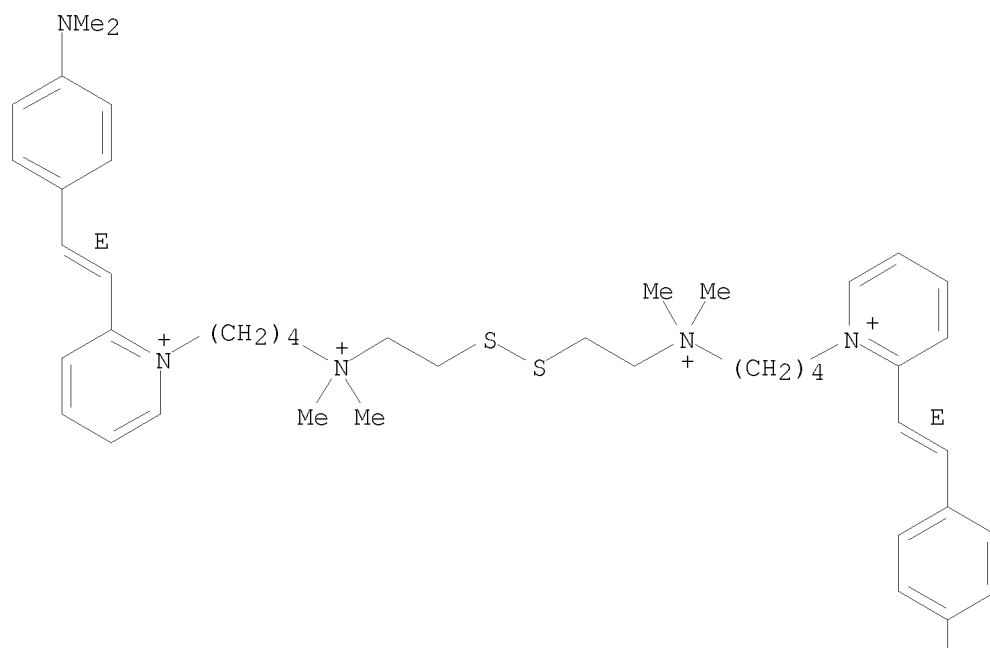
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NMe₂

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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RN 951163-30-7 REGISTRY
ED Entered STN: 22 Oct 2007
CN INDEX NAME NOT YET ASSIGNED
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SR CA
LC STN Files: CA, CAPLUS
CRN (950782-65-7)

Double bond geometry as shown.

PAGE 1-A



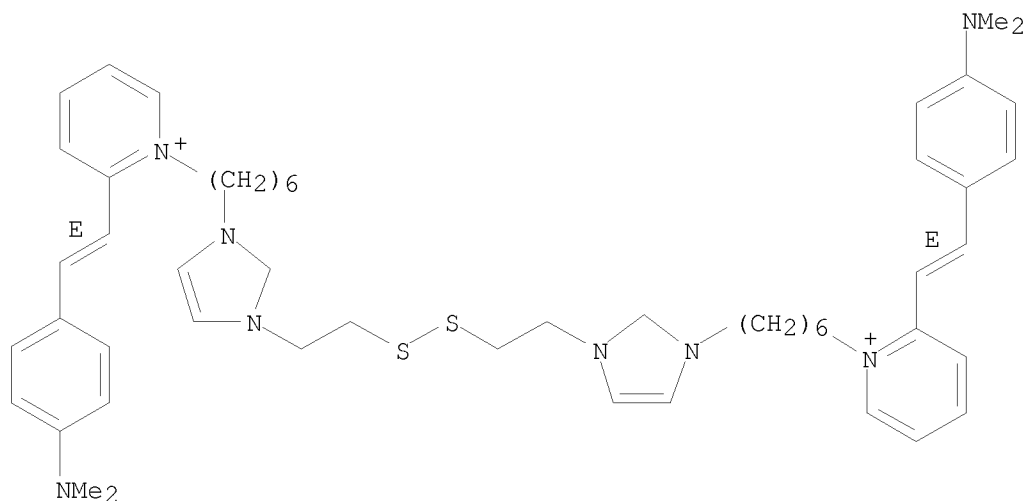
PAGE 2-A

NMe₂● 4 Br⁻

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RN 951163-25-0 REGISTRY
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LC STN Files: CA, CAPLUS

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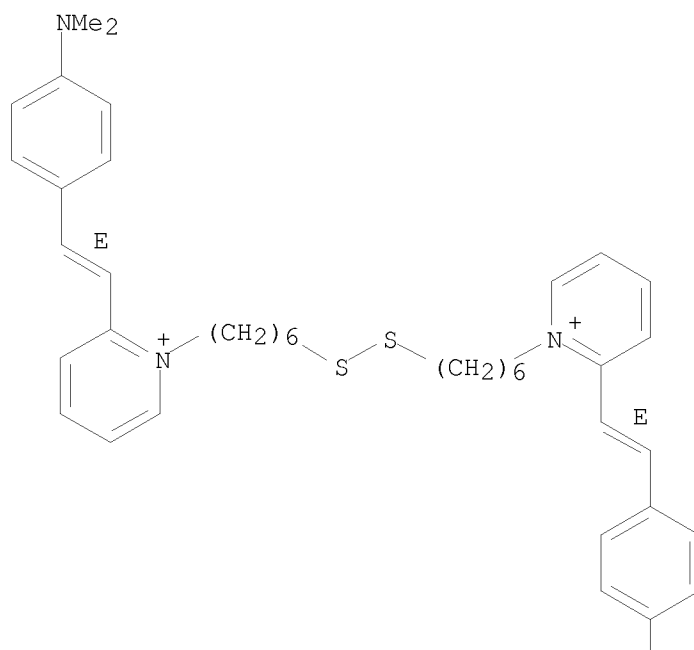
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
RN 951133-37-2 REGISTRY
ED Entered STN: 22 Oct 2007
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FS STEREOSEARCH
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 SR CA
 LC STN Files: CA, CAPLUS
 CRN (950782-60-2)

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A



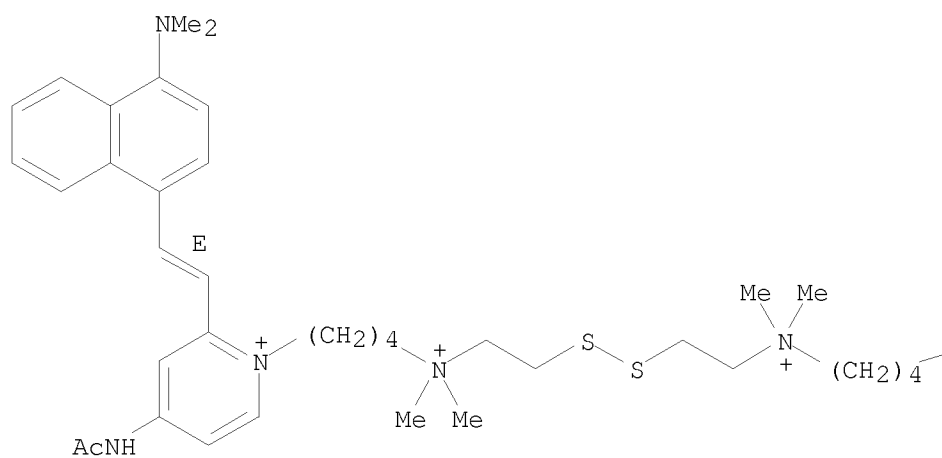
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 RN 950782-67-9 REGISTRY
 ED Entered STN: 16 Oct 2007

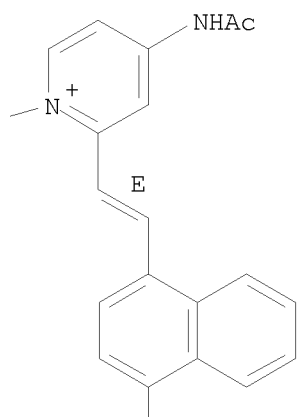
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LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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PAGE 1-B



PAGE 2-B



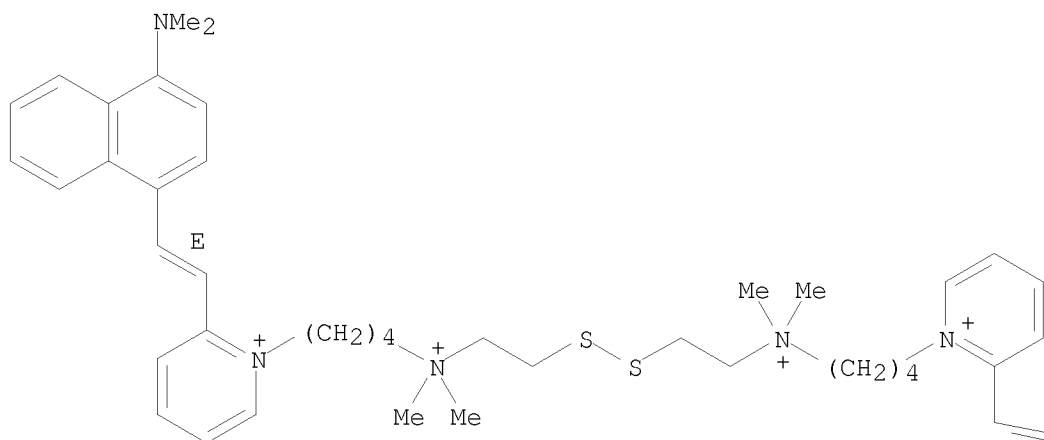
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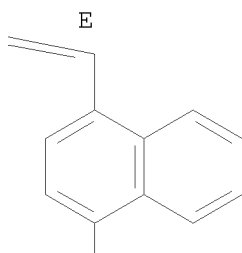
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RN 950782-66-8 REGISTRY
ED Entered STN: 16 Oct 2007
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C54 H72 N6 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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PAGE 1-B



PAGE 2-B

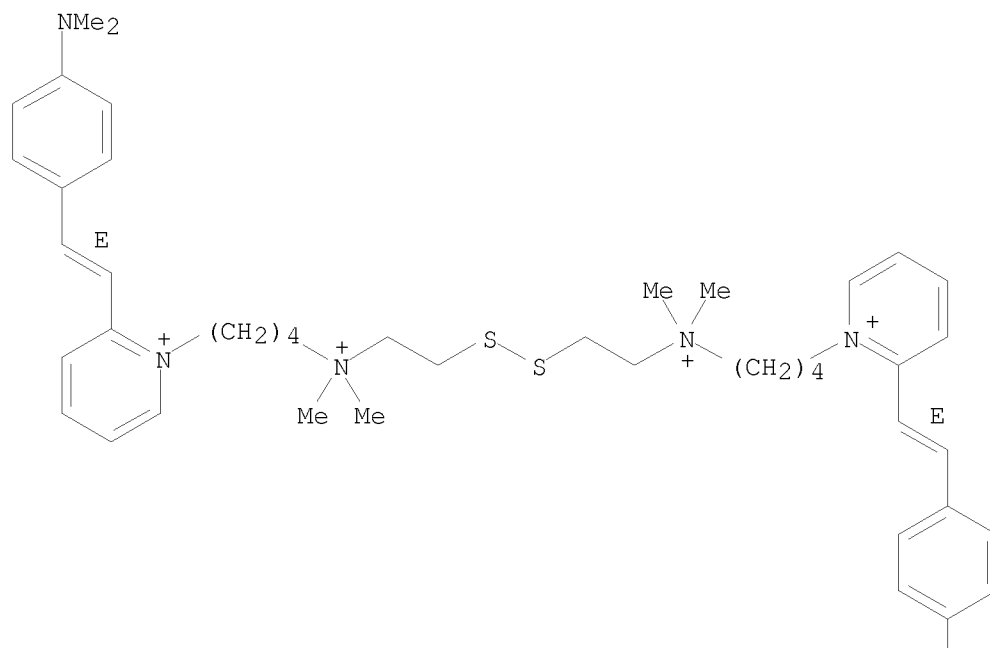


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RN 950782-65-7 REGISTRY
ED Entered STN: 16 Oct 2007
CN INDEX NAME NOT YET ASSIGNED
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CI COM
SR CA
LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

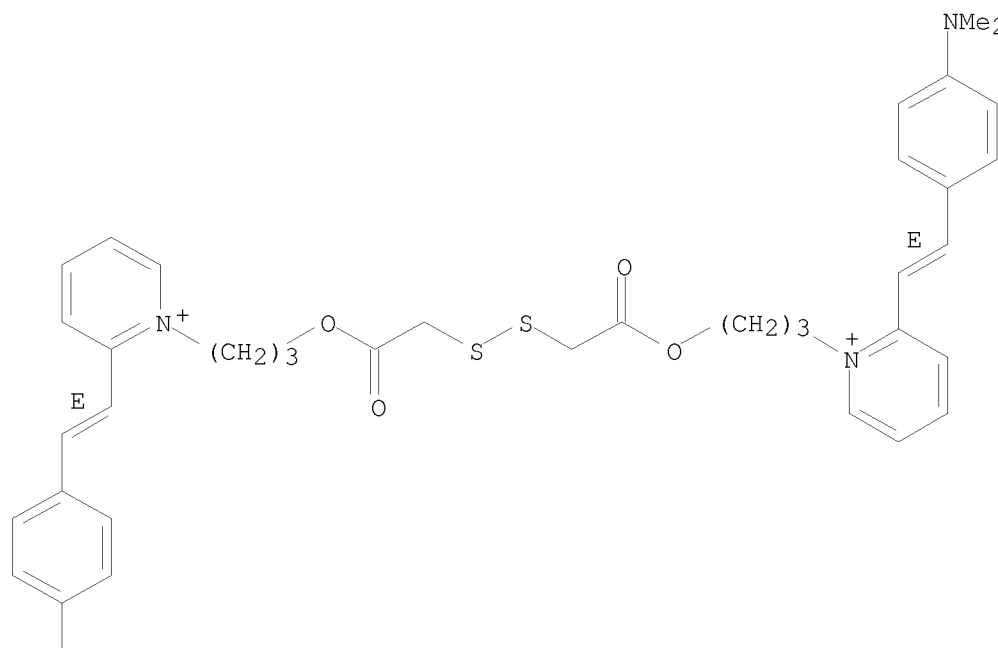
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L3 ANSWER 8 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 950782-64-6 REGISTRY
 ED Entered STN: 16 Oct 2007
 CN Pyridinium, 1,1'-[dithiobis[(1-oxo-2,1-ethanediyl)oxy-3,1-propanediyl]]bis[2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]- (CA INDEX NAME)
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Double bond geometry as shown.

PAGE 1-A



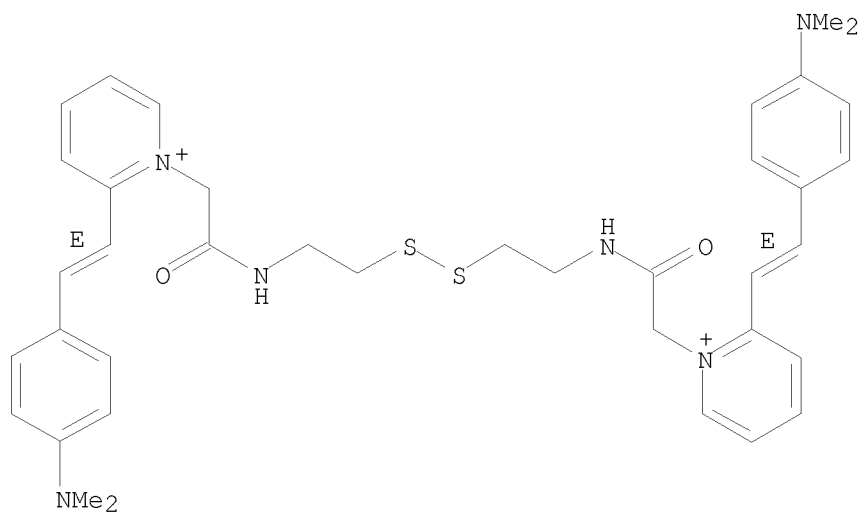
PAGE 2-A

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 RN 950782-62-4 REGISTRY
 ED Entered STN: 16 Oct 2007
 CN Pyridinium, 2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]-1-[2-[[2-[[2-[[2-[[2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]pyridinio]acetyl]amino]ethyl]dithio]ethyl]amino]-2-oxoethyl]- (CA INDEX NAME)
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 LC STN Files: CA, CAPLUS

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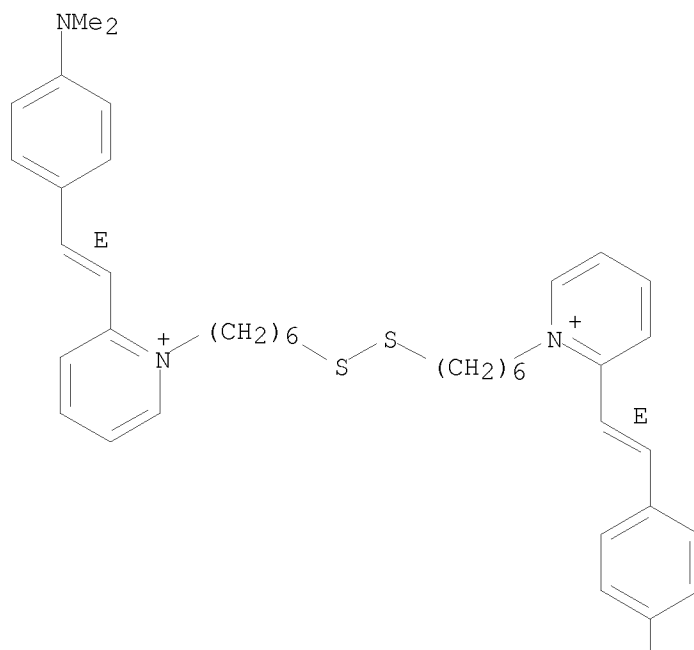


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RN 950782-60-2 REGISTRY
ED Entered STN: 16 Oct 2007
CN INDEX NAME NOT YET ASSIGNED
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CI COM
SR CA
LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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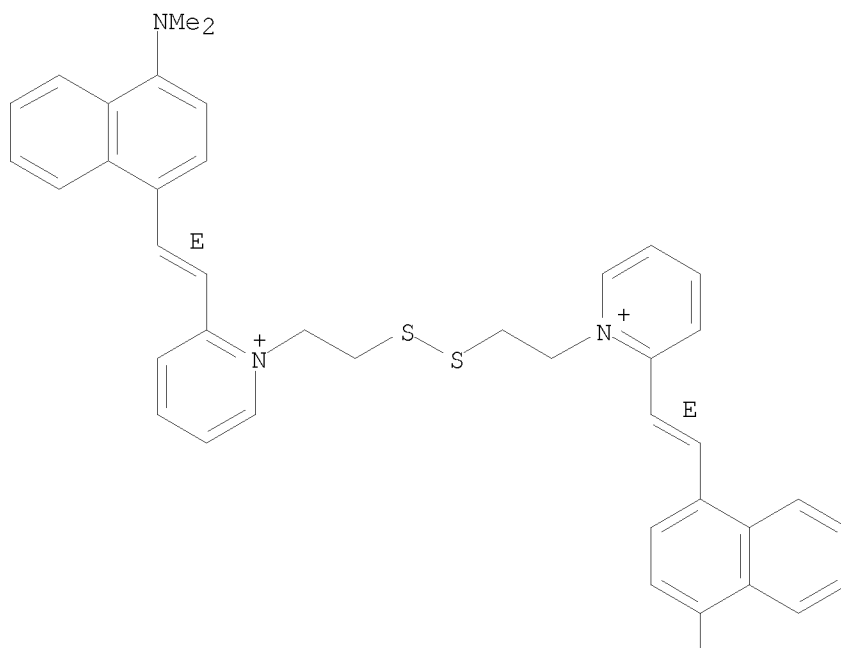
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L3 ANSWER 11 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 950782-57-7 REGISTRY
 ED Entered STN: 16 Oct 2007
 CN INDEX NAME NOT YET ASSIGNED
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



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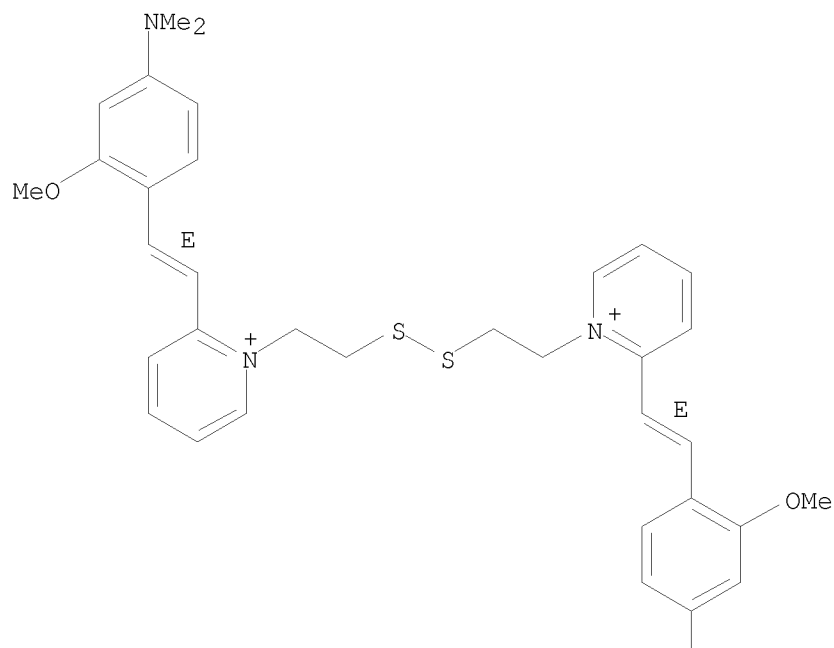


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RN 950782-54-4 REGISTRY
ED Entered STN: 16 Oct 2007
CN INDEX NAME NOT YET ASSIGNED
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SR CA
LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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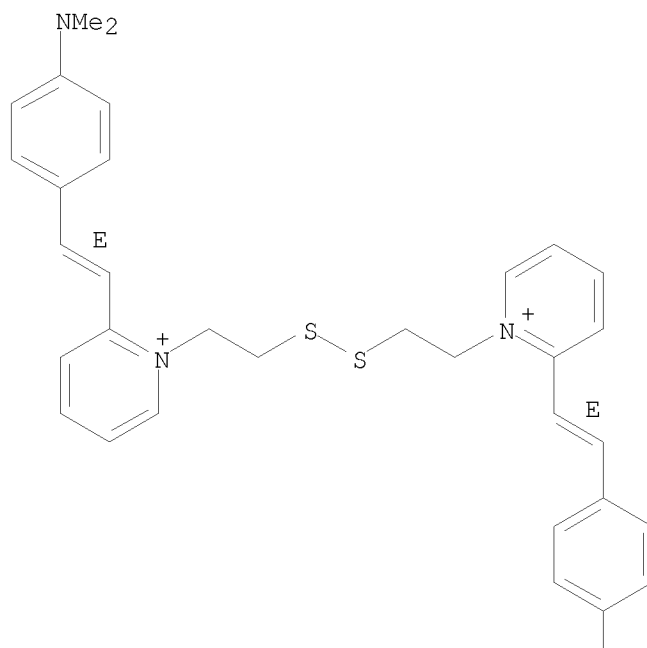


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 RN 950782-50-0 REGISTRY
 ED Entered STN: 16 Oct 2007
 CN INDEX NAME NOT YET ASSIGNED
 FS STEREOSEARCH
 MF C34 H40 N4 S2
 CI COM
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

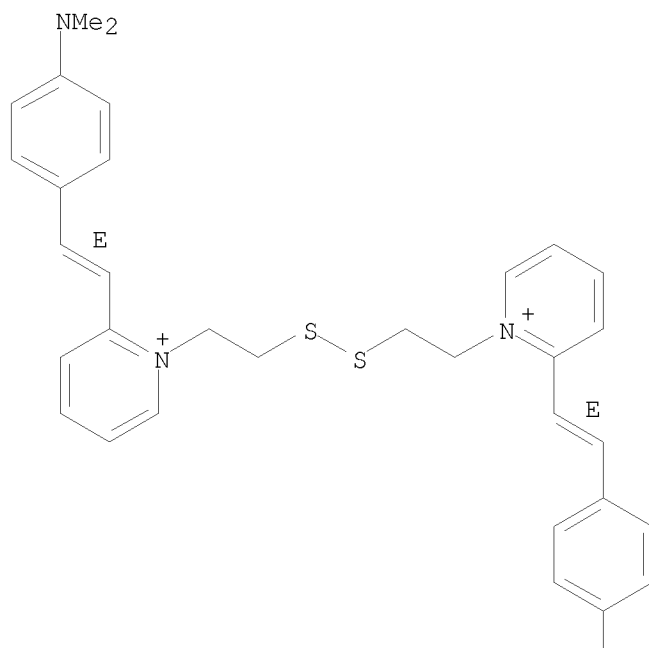


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RN 950780-99-1 REGISTRY
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LC STN Files: CA, CAPLUS
CRN (950782-50-0)

Double bond geometry as shown.

PAGE 1-A

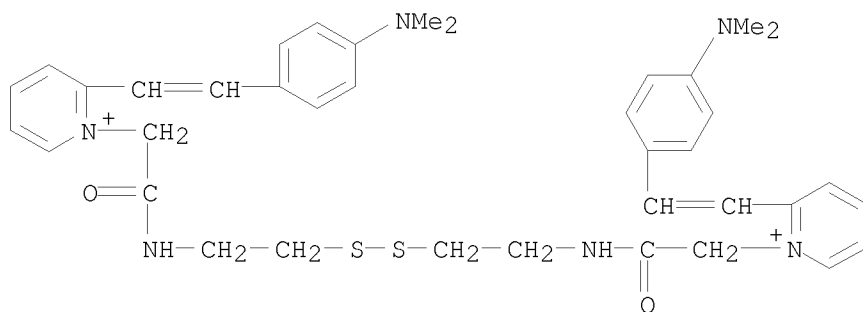


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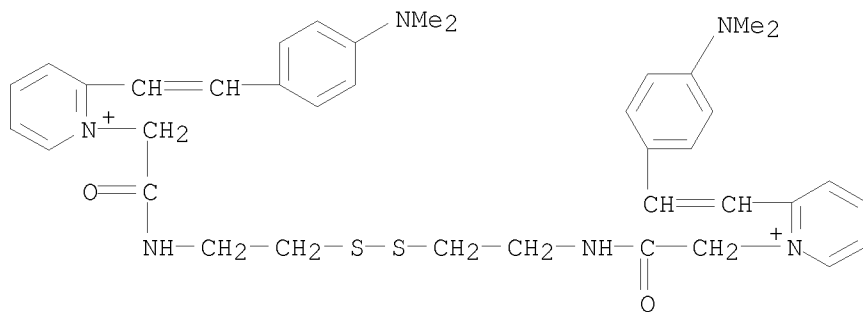
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 RN 911284-61-2 REGISTRY
 ED Entered STN: 25 Oct 2006
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 MF C38 H46 N6 O2 S2
 CI COM
 SR CA



L3 ANSWER 16 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 911223-14-8 REGISTRY
 ED Entered STN: 25 Oct 2006
 CN Pyridinium, 1,1'-[dithiobis[2,1-ethanediylimino(2-oxo-2,1-ethanediyl)]]bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, bromide (1:2)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Pyridinium, 1,1'-[dithiobis[2,1-ethanediylimino(2-oxo-2,1-ethanediyl)]]bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI)
 MF C38 H46 N6 O2 S2 . 2 Br
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 LC STN Files: CA, CAPLUS
 CRN (911284-61-2)



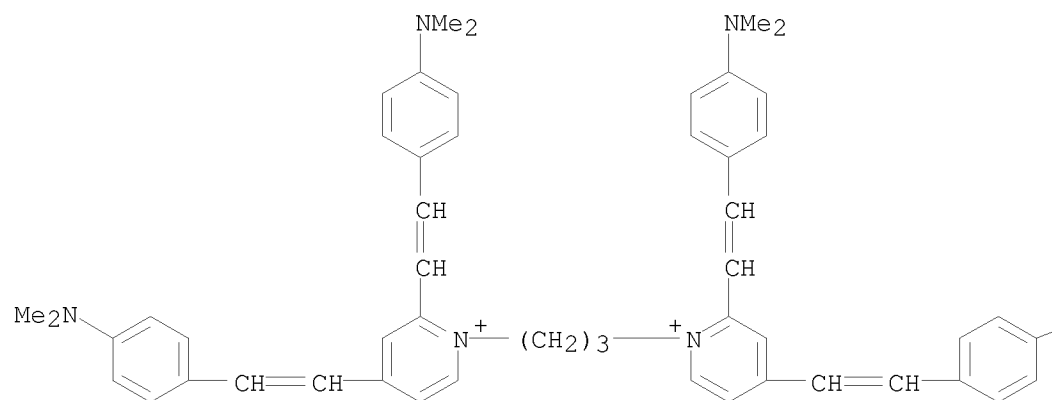
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 RN 857151-15-6 REGISTRY
 ED Entered STN: 27 Jul 2005
 CN Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- (5CI)
 (CA INDEX NAME)

MF C53 H60 N6
 CI COM
 SR CA

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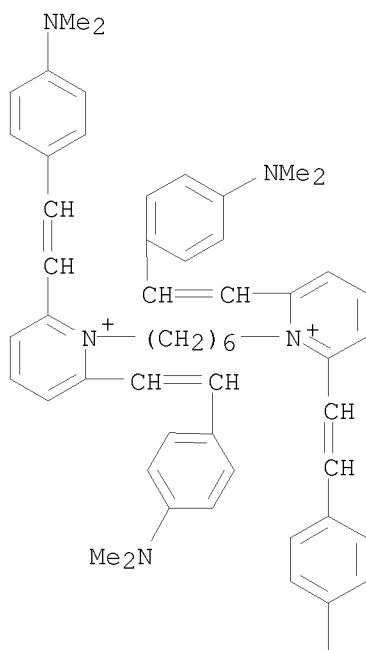


PAGE 1-B

— NMe₂

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 RN 857149-55-4 REGISTRY
 ED Entered STN: 27 Jul 2005
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 (CA INDEX NAME)
 MF C56 H66 N6
 CI COM
 SR CA

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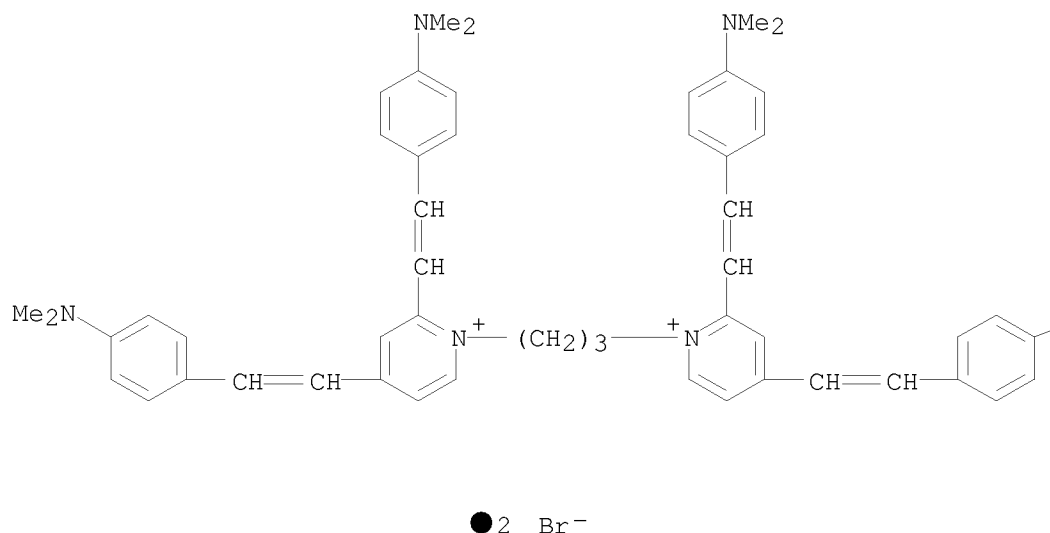


PAGE 2-A



L3 ANSWER 19 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 856965-40-7 REGISTRY
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 (5CI) (CA INDEX NAME)
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 CRN (857151-15-6)

PAGE 1-A



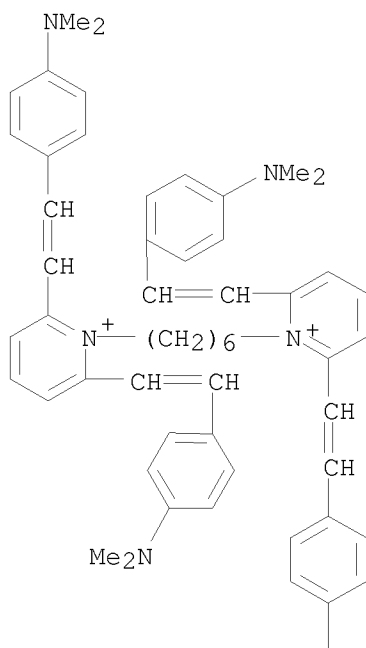
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 (5CI) (CA INDEX NAME)
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 CRN (857149-55-4)

PAGE 1-A

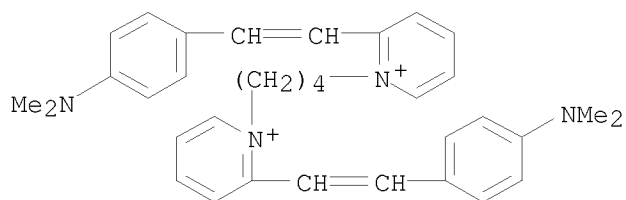


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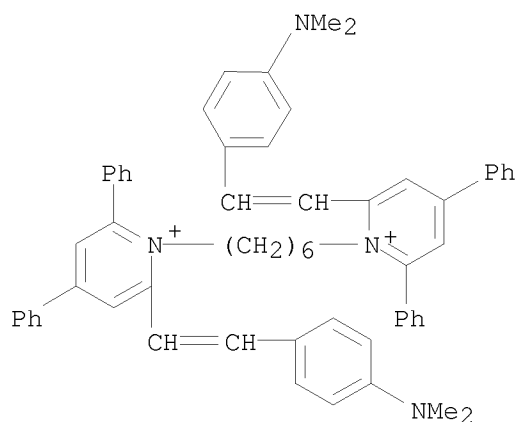
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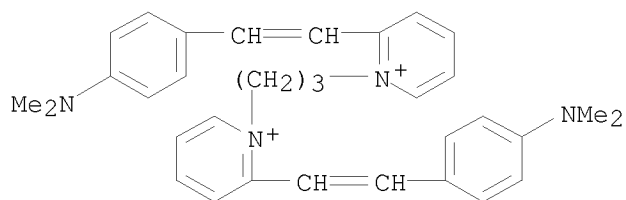
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]- (CA INDEX NAME)
 MF C34 H40 N4
 CI COM
 SR CA



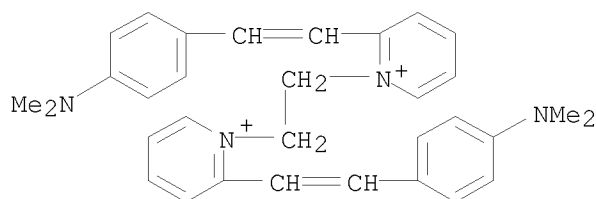
L3 ANSWER 22 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 744141-63-7 REGISTRY
 ED Entered STN: 13 Sep 2004
 CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl]- (CA INDEX NAME)
 MF C60 H60 N4
 CI COM
 SR CA



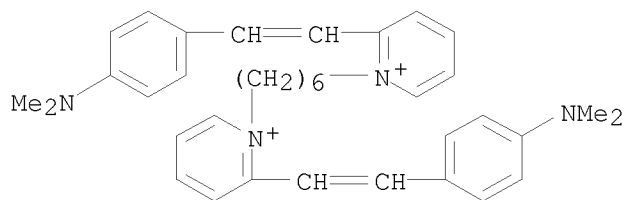
L3 ANSWER 23 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 733713-49-0 REGISTRY
 ED Entered STN: 27 Aug 2004
 CN Pyridinium, 1,1'-(1,3-propanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl]- (CA INDEX NAME)
 MF C33 H38 N4
 CI COM
 SR CA



L3 ANSWER 24 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 731760-10-4 REGISTRY
 ED Entered STN: 23 Aug 2004
 CN Pyridinium, 1,1'-(1,2-ethanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]
]- (CA INDEX NAME)
 MF C32 H36 N4
 CI COM
 SR CA



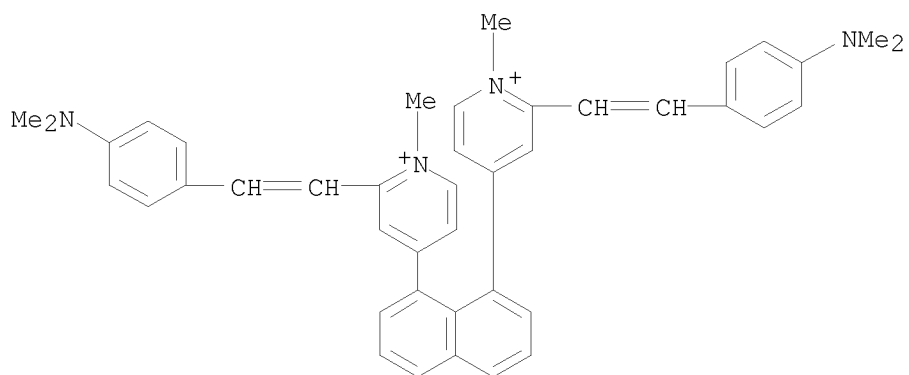
L3 ANSWER 25 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 708969-94-2 REGISTRY
 ED Entered STN: 12 Jul 2004
 CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]
]- (CA INDEX NAME)
 MF C36 H44 N4
 CI COM
 SR CA



L3 ANSWER 26 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 188821-11-6 REGISTRY
 ED Entered STN: 06 May 1997
 CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-methyl-, diperchlorate (9CI) (CA INDEX NAME)
 MF C42 H42 N4 . 2 Cl O4
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

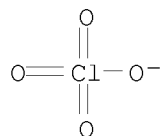
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 CMF C42 H42 N4



CM 2

CRN 14797-73-0

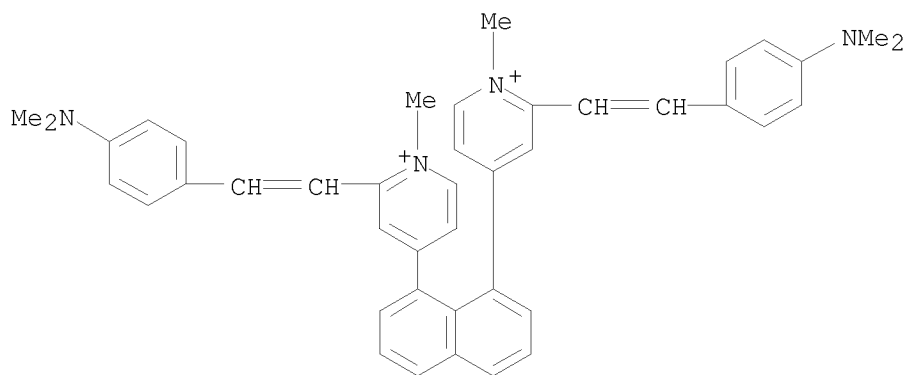
CMF C1 04



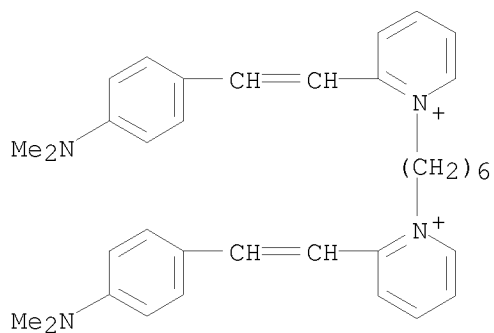
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 27 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 188821-10-5 REGISTRY
 ED Entered STN: 06 May 1997
 CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-methyl- (CA INDEX NAME)
 MF C42 H42 N4
 CI COM
 SR CA



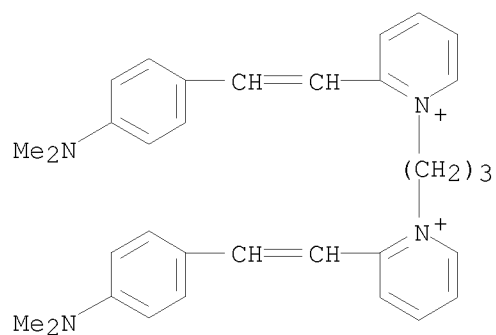
L3 ANSWER 28 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 139537-27-2 REGISTRY
 ED Entered STN: 13 Mar 1992
 CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)
 MF C36 H44 N4 . 2 Br
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMINFORMRX, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 CRN (708969-94-2)



● 2 Br⁻

14 REFERENCES IN FILE CA (1907 TO DATE)
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

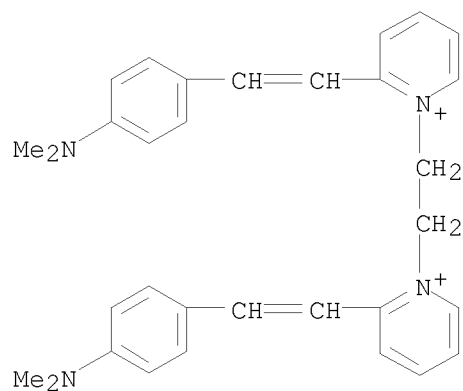
L3 ANSWER 29 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 139537-26-1 REGISTRY
 ED Entered STN: 13 Mar 1992
 CN Pyridinium, 1,1'-(1,3-propanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)
 MF C33 H38 N4 . 2 Br
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)
 CRN (733713-49-0)



● 2 Br⁻

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 30 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
RN 139537-25-0 REGISTRY
ED Entered STN: 13 Mar 1992
CN Pyridinium, 1,1'-(1,2-ethanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)
MF C32 H36 N4 . 2 Br
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
CRN (731760-10-4)



● 2 Br⁻

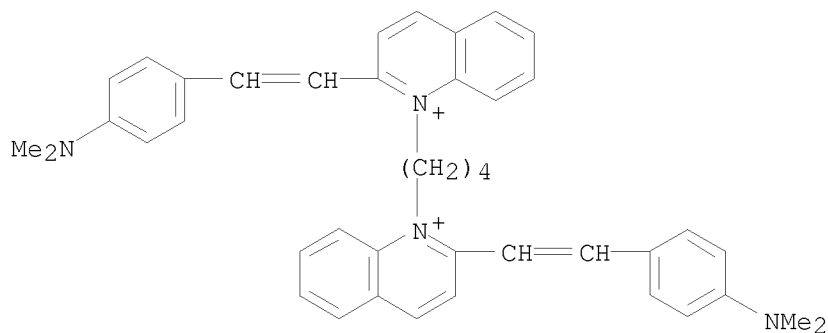
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 31 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 98570-03-7 REGISTRY
 ED Entered STN: 12 Oct 1985
 CN Quinolinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)
 MF C42 H44 N4 . 2 C7 H7 O3 S
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)

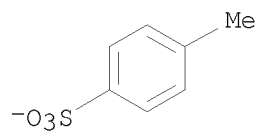
CM 1

CRN 98570-02-6
 CMF C42 H44 N4



CM 2

CRN 16722-51-3
 CMF C7 H7 O3 S

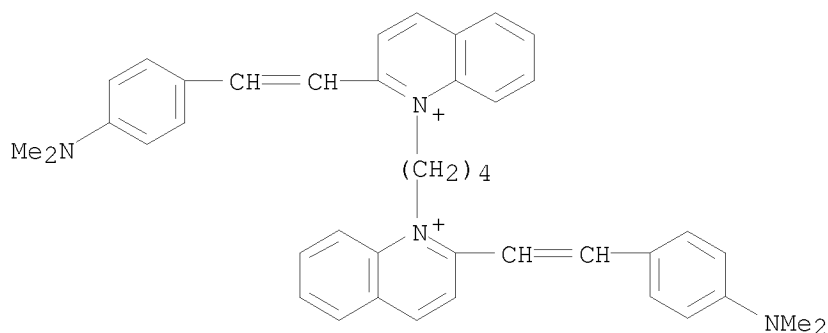


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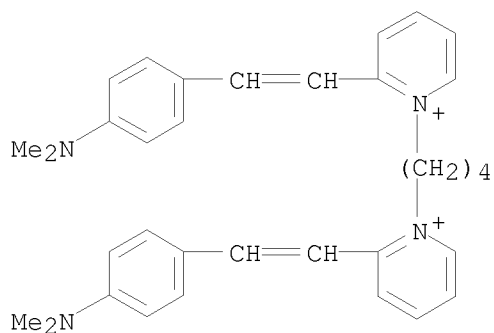
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 32 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 98570-02-6 REGISTRY
 ED Entered STN: 12 Oct 1985
 CN Quinolinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-

(dimethylamino)phenyl]ethenyl]- (CA INDEX NAME)
 MF C42 H44 N4
 CI COM
 SR CA



L3 ANSWER 33 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 71068-06-9 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)
 MF C34 H40 N4 . 2 Br
 LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL
 (*File contains numerically searchable property data)
 CRN (773797-86-7)



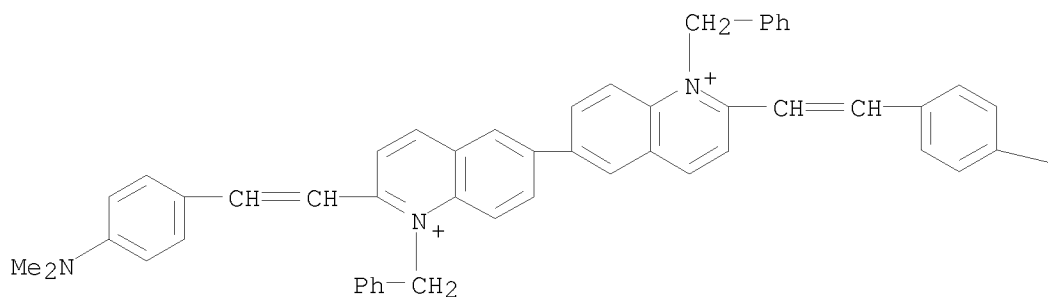
● 2 Br⁻

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 34 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 47893-52-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 6,6'-Biquinolinium, 2,2'-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,1'-

bis(phenylmethyl)- (9CI) (CA INDEX NAME)
 MF C52 H48 N4
 CI COM
 LC STN Files: BEILSTEIN*
 (*File contains numerically searchable property data)

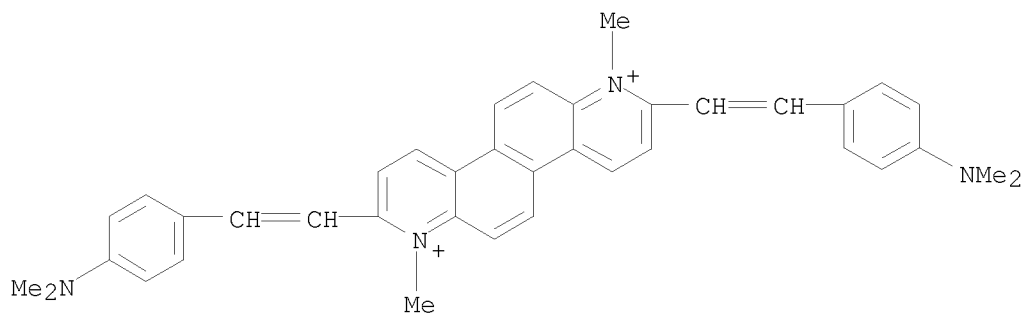
PAGE 1-A



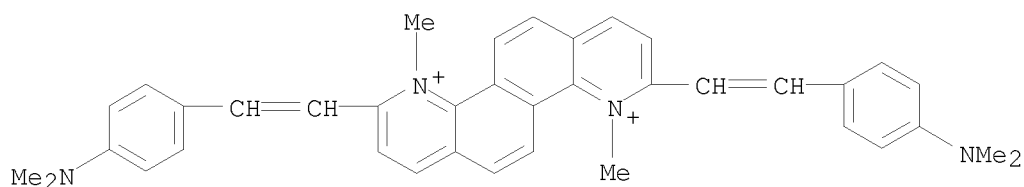
PAGE 1-B

—NMe₂

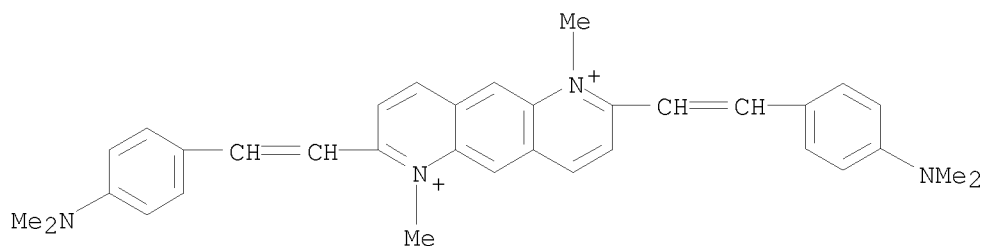
L3 ANSWER 35 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 47832-42-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Quino[6,5-f]quinolinium, 2,8-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,7-
 dimethyl- (9CI) (CA INDEX NAME)
 MF C38 H38 N4
 CI COM
 LC STN Files: BEILSTEIN*
 (*File contains numerically searchable property data)



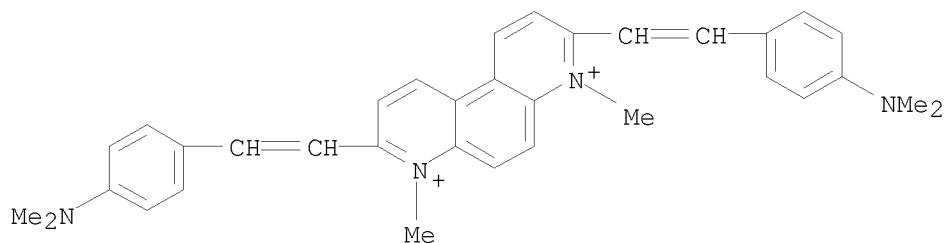
L3 ANSWER 36 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 47832-28-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Quino[8,7-h]quinolinium, 3,9-bis[2-[4-(dimethylamino)phenyl]ethenyl]-4,10-dimethyl- (9CI) (CA INDEX NAME)
 MF C38 H38 N4
 CI COM
 LC STN Files: BEILSTEIN*
 (*File contains numerically searchable property data)



L3 ANSWER 37 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 47801-45-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Pyrido[2,3-g]quinolinium, 2,7-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,6-dimethyl- (9CI) (CA INDEX NAME)
 MF C34 H36 N4
 CI COM



L3 ANSWER 38 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 47799-32-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 4,7-Phenanthroline, 3,8-bis[2-[4-(dimethylamino)phenyl]ethenyl]-4,7-dimethyl- (9CI) (CA INDEX NAME)
 MF C34 H36 N4
 CI COM



L3 ANSWER 39 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN

RN 38128-33-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl-, diiodide (9CI) (CA INDEX NAME)

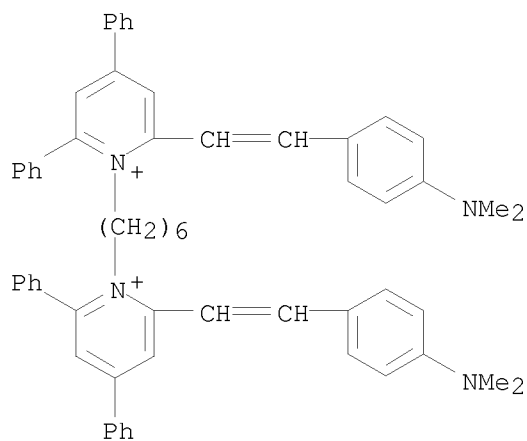
OTHER NAMES:

CN 1,1'-Hexamethylenebis[2-(4-dimethylaminostyryl)-4,6-diphenylpyridinium iodide]

MF C60 H60 N4 . 2 I

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CRN (744141-63-7)



● 2 I⁻

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 40 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN

RN 36840-77-4 REGISTRY

ED Entered STN: 16 Nov 1984

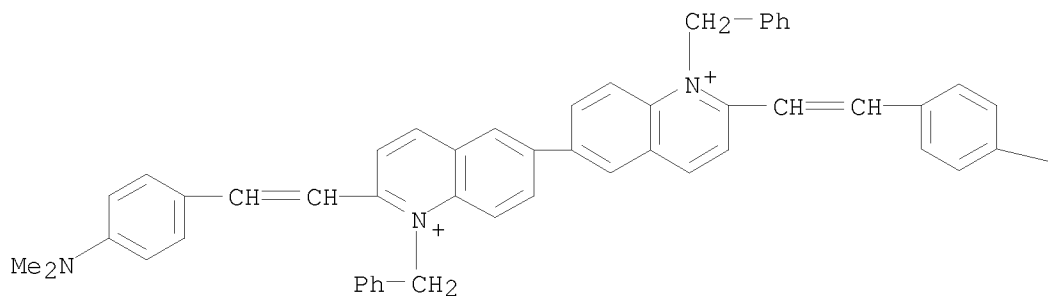
CN 6,6'-Biquinolinium, 2,2'-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,1'-

bis(phenylmethyl)-, diperchlorate (9CI) (CA INDEX NAME)
 MF C52 H48 N4 . 2 Cl O4
 LC STN Files: CA, CAPLUS

CM 1

CRN 47893-52-7
 CMF C52 H48 N4

PAGE 1-A

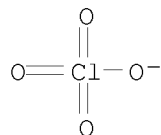


PAGE 1-B

—NMe₂

CM 2

CRN 14797-73-0
 CMF Cl O4



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 41 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 36749-69-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 4,7-Phenanthroline, 3,8-bis[2-[4-(dimethylamino)phenyl]ethenyl]-4,7-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,7-Bis(p-dimethylaminostyryl)-1,8-dimethyl-1,8-diazoniaphenanthrene
diperchlorate

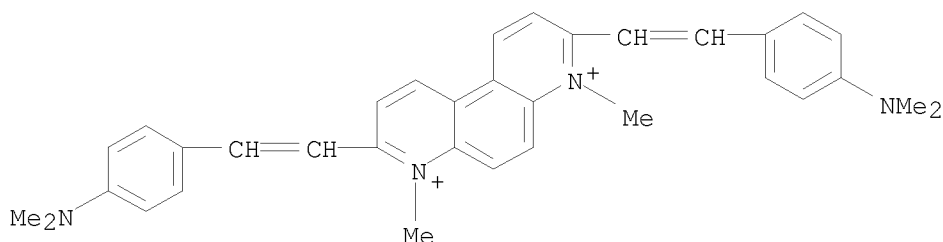
MF C34 H36 N4 . 2 Cl O4

LC STN Files: CA, CAPLUS

CM 1

CRN 47799-32-6

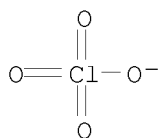
CMF C34 H36 N4



CM 2

CRN 14797-73-0

CMF Cl O4



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 42 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN

RN 36749-67-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyrido[2,3-g]quinolinium, 2,7-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,6-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,6-Bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazoniaanthracene
bisperchlorate

CN 2,6-Bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazonianthracene
diperchlorate

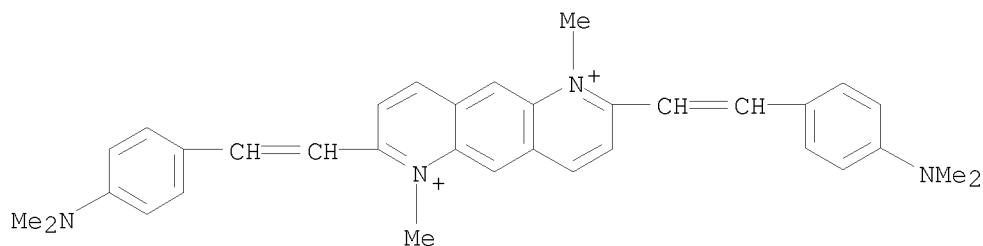
MF C34 H36 N4 . 2 Cl O4

LC STN Files: CA, CAPLUS

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CRN 47801-45-6

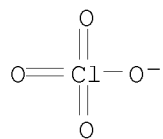
CMF C34 H36 N4



CM 2

CRN 14797-73-0

CMF Cl O4



1 REFERENCES IN FILE CA (1907 TO DATE)

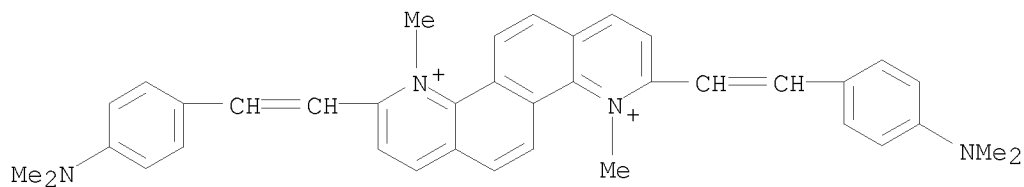
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 43 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 33697-38-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Quino[8,7-h]quinolinium, 3,9-bis[p-(dimethylamino)styryl]-4,10-dimethyl-,
 diperchlorate (8CI) (CA INDEX NAME)
 MF C38 H38 N4 . 2 Cl O4
 LC STN Files: CA, CAPLUS

CM 1

CRN 47832-28-0

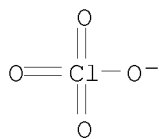
CMF C38 H38 N4



CM 2

CRN 14797-73-0

CMF C1 O4

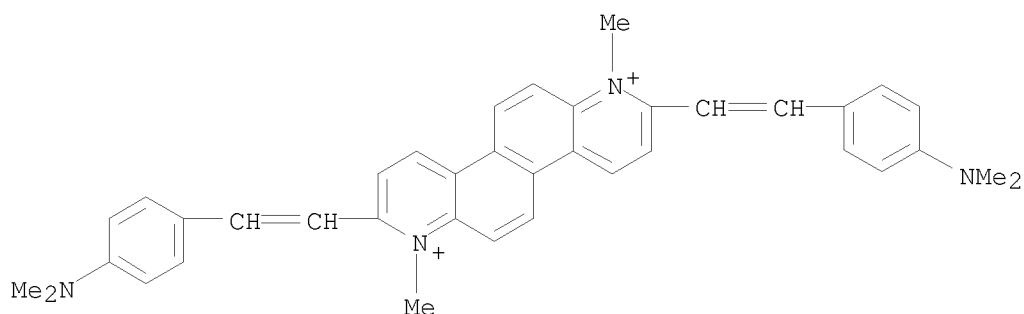


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 44 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 33657-22-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Quino[6,5-f]quinolinium, 2,8-bis[p-(dimethylamino)styryl]-1,7-dimethyl-,
 diperchlorate (8CI) (CA INDEX NAME)
 MF C38 H38 N4 . 2 Cl O4
 LC STN Files: CA, CAPLUS

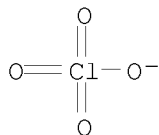
CM 1

CRN 47832-42-8
 CMF C38 H38 N4



CM 2

CRN 14797-73-0
 CMF C1 O4



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> log hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

261.65

261.86

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:10:33 ON 28 NOV 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTABSF1616

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 09:13:44 ON 28 NOV 2007

FILE 'REGISTRY' ENTERED AT 09:13:44 ON 28 NOV 2007

COPYRIGHT (C) 2007 American Chemical Society (ACS)

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

261.65

261.86

=> d his

(FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007)

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007

L1 STRUCTURE UPLOADED

L2 1 S L1 SSS SAM

L3 44 S L1 SSS FULL

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

261.65

261.86

FILE 'CAPLUS' ENTERED AT 09:13:54 ON 28 NOV 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE LAST UPDATED: 27 Nov 2007 (20071127/ED)

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<http://www.cas.org/infopolicy.html>

=> s 13

L4 30 L3

=> d ti 1-30

L4 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Method of dyeing and lightening keratin materials in the presence of a reducing agent comprising a fluorescent disulfide dye

L4 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Hair dye composition containing a thiol/disulfide fluorescent dye comprising an ortho-pyridinium group with an uninterrupted alkylene chain and an internal cationic charge

L4 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Hair dye composition containing a thiol/disulfide fluorescent dye comprising an ortho-pyridinium group with an interrupted alkylene chain and an external cationic charge

L4 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Hair dye composition containing a thiol/disulfide fluorescent dye comprising a condensed cycle, with an internal cationic charge

L4 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Hair dye compositions comprising a disulfide fluorescent dye

L4 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Mixtures of sulfide dyes for coloring of hair

L4 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Styryl sulfide dyes, compositions thereof and processes for their preparation

L4 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Sulfide hair dyes

L4 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Composition for coloring for human keratinic substances containing a fluorescent dye and a particulate sequestering agent

L4 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Method for coloring of human keratinic substances with a fluorescent particulate compound

L4 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

TI Composition for dyeing human keratinic fibers comprising a fluorescent coloring agent and an insoluble conditioning agent

- L4 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Composition for dyeing human keratinic fibers comprising a fluorescent dye and a polyol
- L4 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hair coloring composition containing a fluorescent dye and an associative polymer
- L4 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hair dyeing composition containing a fluorescent dye and an acid
- L4 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hair dyeing composition for human keratinic material comprising a fluorescent coloring agent and an insoluble polyorganosiloxane conditioning polymer
- L4 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Fluorescent dye composition for human keratin fibers
- L4 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Use of compositions containing a fluorescent dye and an amphoteric or nonionic surfactant for dyeing human keratinic fibers with a bleaching effect
- L4 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hair dye composition for keratinic materials comprising a fluorescent dye and an aminosilicone
- L4 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Brightening compositions comprising a fluorescent dye and a polymer thickener for human keratinic matter
- L4 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hair dye preparation comprising a fluorescent dye and cationic polymer
- L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Process for dyeing human keratinic fibers with a brightening effect, wherein the fibers had undergone a permanent wave treatment and wherein a composition comprising a fluorescent dye is applied
- L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI 1,8-Naphthylene chain-linked fluorescent cyanine dyes
- L4 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis of some bischromophoric dyes containing a nonabsorbing flexible bridge
- L4 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Reaction of quinaldine with polymethylene glycol bis(p-toluenesulfonates)
- L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Methine dyes
- L4 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
TI Polynuclear azaaromatic compounds. III. Derivatives of 1,5-diazaanthracene, 1,8- and 1,5-diazaphenanthrenes, and 1,5-diazanaphthalene

L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Photographic dyes derived from 4,6-diaryl picolinium salts

L4 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Synthesis and spectra of bisquaternary quinaldinium salts

L4 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Polynuclear azaaromatic compounds. II. Derivatives of diazachrysenes

L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Photographic sensitizing dyes

=> d ibib abs hitstr 21 25

L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822830 CAPLUS
 DOCUMENT NUMBER: 141:319498
 TITLE: Process for dyeing human keratinic fibers with a
 brightening effect, wherein the fibers had undergone a
 permanent wave treatment and wherein a composition
 comprising a fluorescent dye is applied
 INVENTOR(S): Plos, Gregory; Samain, Henri
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|-------------|
| EP 1464318 | A1 | 20041006 | EP 2004-290866 | 20040401 |
| EP 1464318 | B1 | 20061011 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853237 | A1 | 20041008 | FR 2003-4031 | 20030401 |
| FR 2853237 | B1 | 20060714 | | |
| JP 2004307498 | A | 20041104 | JP 2004-108897 | 20040401 |
| US 2005005368 | A1 | 20050113 | US 2004-814333 | 20040401 |
| US 7195650 | B2 | 20070327 | | |
| BR 2004001191 | A | 20050118 | BR 2004-1191 | 20040401 |
| MX 2004PA03096 | A | 20050331 | MX 2004-PA3096 | 20040401 |
| AT 342042 | T | 20061115 | AT 2004-290866 | 20040401 |
| ES 2273179 | T3 | 20070501 | ES 2004-4290866 | 20040401 |
| JP 2006249103 | A | 20060921 | JP 2006-175856 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4031 | A 20030401 |
| | | | US 2003-468104P | P 20030506 |
| | | | JP 2004-108897 | A3 20040401 |

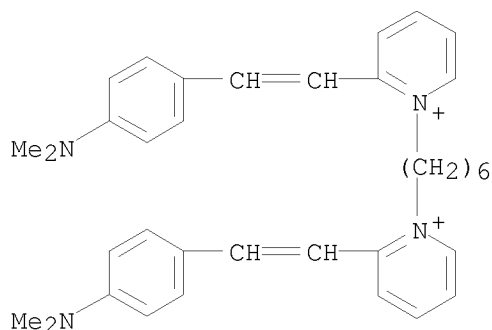
OTHER SOURCE(S): MARPAT 141:319498
 AB Process for dyeing human keratinic fibers with a brightening effect,
 wherein the fibers had undergone a permanent wave treatment and wherein a
 composition comprising a fluorescent dye is applied is disclosed. Thus,
 1,6-dibromohexane was reacted with 2-picoline to obtain a precipitate which was
 separated and reacted with p-dimethylaminobenzaldehyde to obtain

1,6-bis[(2-p-dimethylaminophenylethenyl)pyridinium]hexane derivative (I). A hair dye composition contained I 0.6, sodium N-cocoyl amidoethyl N-ethoxycarboxymethyl glycinate 2, hexylene glycol 7, and water q.s. 100%.

IT 139537-27-2P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (process for dyeing human keratinic fibers with brightening effect, wherein fibers had undergone permanent wave treatment and wherein composition comprising fluorescent dye is applied)

RN 139537-27-2 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:509008 CAPLUS

DOCUMENT NUMBER: 91:109008

ORIGINAL REFERENCE NO.: 91:17599a,17602a

TITLE: Methine dyes

INVENTOR(S): Degen, Hans Juergen; Feichtmayr, Franz; Grychtol, Klaus

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 31 pp.
 CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

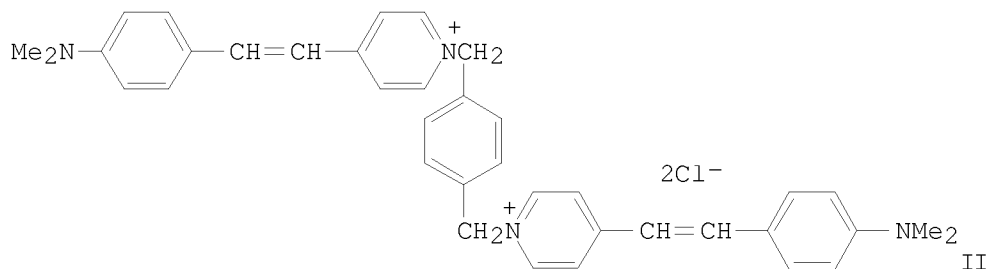
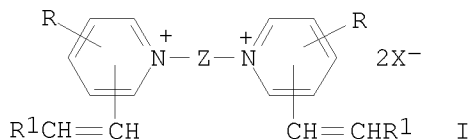
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| DE 2754403 | A1 | 19790613 | DE 1977-2754403 | 19771207 |
| DE 2754403 | C2 | 19870527 | | |
| FR 2411219 | A1 | 19790706 | FR 1978-33522 | 19781128 |
| FR 2411219 | B1 | 19830923 | | |
| CH 639114 | A5 | 19831031 | CH 1978-12364 | 19781204 |
| JP 54086521 | A | 19790710 | JP 1978-150129 | 19781206 |
| JP 62049311 | B | 19871019 | | |

| | | | | |
|------------------------|---|----------|-----------------|-------------|
| GB 2011457 | A | 19790711 | GB 1978-47324 | 19781206 |
| GB 2011457 | B | 19820526 | | |
| US 4256458 | A | 19810317 | US 1979-50527 | 19790621 |
| PRIORITY APPLN. INFO.: | | | DE 1977-2754403 | A 19771207 |
| | | | US 1978-964148 | A3 19781128 |

GI



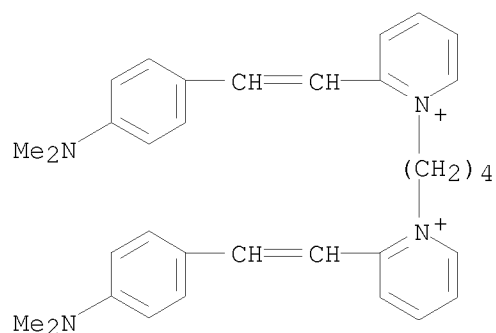
AB Substantive yellow to bluish red paper dyes having the general structure I are prepared, where R = H, Me, or Et, R1 = aryl or heteroaryl, Z = alkylene or arylenedimethylene, X- = anion, and the methine groups are in α - or γ -position. Thus, reaction of p-(dimethylamino)benzaldehyde [100-10-7] with 1,1'-(p-xylylene)bis(4-methylpyridinium chloride) [71068-00-3] in refluxing HOAc gave II [71068-16-1], a red powder which dyed bleached sulfite pulp red shades. Other I were similarly prepared

IT 71068-06-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of, as dye for paper)

RN 71068-06-9 CAPLUS

CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

=> log hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

23.09

284.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.56

-1.56

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:17:07 ON 28 NOV 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTABSF1616

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'CAPLUS' AT 09:24:57 ON 28 NOV 2007

FILE 'CAPLUS' ENTERED AT 09:24:57 ON 28 NOV 2007

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

23.09

284.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.56

-1.56

=> d his

(FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007)

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007

L1 STRUCTURE UPLOADED

L2 1 S L1 SSS SAM

L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:13:54 ON 28 NOV 2007

L4 30 S L3

=> s ?silicone

L5 110721 ?SILICONE

=> s ?siloxane

L6 120996 ?SILOXANE

=> s l5 or l6

L7 198161 L5 OR L6

=> s l4 and l7

L8 2 L4 AND L7

=> d ibib abs hitstr 1-2

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822836 CAPLUS

DOCUMENT NUMBER: 141:319504

TITLE: Hair dyeing composition for human keratinic material
comprising a fluorescent coloring agent and an
insoluble polyorganosiloxane conditioning
polymer

INVENTOR(S): Plos, Gregory; Samain, Henri

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 1464324 | A1 | 20041006 | EP 2004-290867 | 20040401 |
| EP 1464324 | B1 | 20061108 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853238 | A1 | 20041008 | FR 2003-4033 | 20030401 |
| MX 2004PA03094 | A | 20041027 | MX 2004-PA3094 | 20040401 |
| JP 2004307499 | A | 20041104 | JP 2004-108898 | 20040401 |
| US 2005005369 | A1 | 20050113 | US 2004-814334 | 20040401 |
| US 7147673 | B2 | 20061212 | | |
| BR 2004001184 | A | 20050118 | BR 2004-1184 | 20040401 |
| AT 344656 | T | 20061115 | AT 2004-290867 | 20040401 |
| ES 2275189 | T3 | 20070601 | ES 2004-4290867 | 20040401 |
| JP 2006282673 | A | 20061019 | JP 2006-175811 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4033 | A 20030401 |

US 2003-468079P

P 20030506

JP 2004-108898

A3 20040401

OTHER SOURCE(S): MARPAT 141:319504

AB Hair dyeing compns. for human keratinic material comprising a fluorescent coloring agent and an insol. polyorganosiloxane conditioning polymer are disclosed. Thus, 1,6-dibromohexane was reacted with 2-picoline to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain 1,6-bis[(2-p-dimethylaminophenylethenyl)pyridinium]hexane derivative (I). A hair dye composition contained I 0.6, Mirasil 70047 V500000 0.25, sodium lauryl ether sulfate 10, and water q.s. 100%.

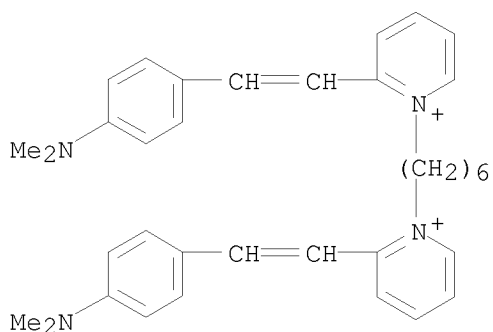
IT 139537-27-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair dyeing composition for human keratinic material comprising fluorescent coloring agent and insol. polyorganosiloxane conditioning polymer)

RN 139537-27-2 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)

●2 Br⁻

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822833 CAPLUS

DOCUMENT NUMBER: 141:319501

TITLE: Hair dye composition for keratinic materials comprising a fluorescent dye and an aminosilicone

INVENTOR(S): Gourlaouen, Luc; Samain, Henri

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

| | | | | |
|---|----|----------|-----------------|-------------|
| EP 1464321 | A1 | 20041006 | EP 2004-290863 | 20040401 |
| EP 1464321 | B1 | 20061206 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853233 | A1 | 20041008 | FR 2003-4027 | 20030401 |
| FR 2853233 | B1 | 20071005 | | |
| JP 2004307496 | A | 20041104 | JP 2004-108822 | 20040401 |
| BR 2004001188 | A | 20050118 | BR 2004-1188 | 20040401 |
| US 2005031563 | A1 | 20050210 | US 2004-814428 | 20040401 |
| US 2006078517 | A9 | 20060413 | | |
| MX 2004PA03101 | A | 20050331 | MX 2004-PA3101 | 20040401 |
| AT 347350 | T | 20061215 | AT 2004-290863 | 20040401 |
| ES 2276241 | T3 | 20070616 | ES 2004-4290863 | 20040401 |
| JP 2006273865 | A | 20061012 | JP 2006-175750 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4027 | A 20030401 |
| | | | US 2003-468107P | P 20030506 |
| | | | JP 2004-108822 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319501

AB Hair dye preps. comprising a particulate fluorescent dye and an aminosilicone are disclosed. Thus, 1,6-dibromohexane was reacted with 2-picoline to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain 1,6-bis[(2-p-dimethylaminophenylethenyl)pyridinium]hexane polymer (I). A hair dye composition contained I 1, DC2939 0.2, and water q.s. 100%.

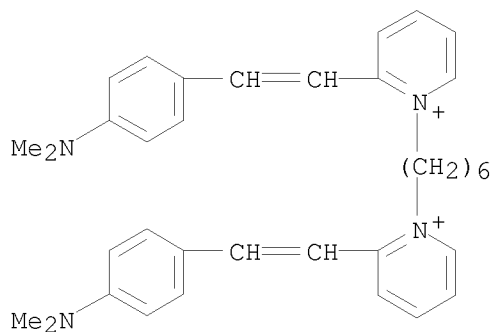
IT 139537-27-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

RN 139537-27-2 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

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(FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007)

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007

L1 STRUCTURE UPLOADED
L2 1 S L1 SSS SAM
L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:13:54 ON 28 NOV 2007

L4 30 S L3
L5 110721 S ?SILICONE
L6 120996 S ?SILOXANE
L7 198161 S L5 OR L6
L8 2 S L4 AND L7

=> d ibib 1-30

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822836 CAPLUS
DOCUMENT NUMBER: 141:319504
TITLE: Hair dyeing composition for human keratinic material
comprising a fluorescent coloring agent and an
insoluble polyorganosiloxane conditioning
polymer
INVENTOR(S): Plos, Gregory; Samain, Henri
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|-------------|
| EP 1464324 | A1 | 20041006 | EP 2004-290867 | 20040401 |
| EP 1464324 | B1 | 20061108 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853238 | A1 | 20041008 | FR 2003-4033 | 20030401 |
| MX 2004PA03094 | A | 20041027 | MX 2004-PA3094 | 20040401 |
| JP 2004307499 | A | 20041104 | JP 2004-108898 | 20040401 |
| US 2005005369 | A1 | 20050113 | US 2004-814334 | 20040401 |
| US 7147673 | B2 | 20061212 | | |
| BR 2004001184 | A | 20050118 | BR 2004-1184 | 20040401 |
| AT 344656 | T | 20061115 | AT 2004-290867 | 20040401 |
| ES 2275189 | T3 | 20070601 | ES 2004-4290867 | 20040401 |
| JP 2006282673 | A | 20061019 | JP 2006-175811 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4033 | A 20030401 |
| | | | US 2003-468079P | P 20030506 |
| | | | JP 2004-108898 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319504

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822833 CAPLUS
DOCUMENT NUMBER: 141:319501
TITLE: Hair dye composition for keratinic materials
comprising a fluorescent dye and an

aminosilicone
 INVENTOR(S): Gourlaouen, Luc; Samain, Henri
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|-------------------|----------|-----------------|-------------|
| EP 1464321 | A1 | 20041006 | EP 2004-290863 | 20040401 |
| EP 1464321 | B1 | 20061206 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853233 | A1 | 20041008 | FR 2003-4027 | 20030401 |
| FR 2853233 | B1 | 20071005 | | |
| JP 2004307496 | A | 20041104 | JP 2004-108822 | 20040401 |
| BR 2004001188 | A | 20050118 | BR 2004-1188 | 20040401 |
| US 2005031563 | A1 | 20050210 | US 2004-814428 | 20040401 |
| US 2006078517 | A9 | 20060413 | | |
| MX 2004PA03101 | A | 20050331 | MX 2004-PA3101 | 20040401 |
| AT 347350 | T | 20061215 | AT 2004-290863 | 20040401 |
| ES 2276241 | T3 | 20070616 | ES 2004-4290863 | 20040401 |
| JP 2006273865 | A | 20061012 | JP 2006-175750 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4027 | A 20030401 |
| | | | US 2003-468107P | P 20030506 |
| | | | JP 2004-108822 | A3 20040401 |
| OTHER SOURCE(S): | MARPAT 141:319501 | | | |

=> d 14 ibib 1-30

L4 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007:1116944 CAPLUS
 DOCUMENT NUMBER: 147:412670
 TITLE: Method of dyeing and lightening keratin materials in the presence of a reducing agent comprising a fluorescent disulfide dye
 INVENTOR(S): Daubresse, Nicolas; Greaves, Andrew; Samain, Henri
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 78pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 13
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2007110542 | A2 | 20071004 | WO 2007-FR51008 | 20070323 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, | | | | |

RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM

FR 2898903 A1 20070928 FR 2006-51035 20060324
 PRIORITY APPLN. INFO.: FR 2006-51035 A 20060324
 US 2006-792941P P 20060419

OTHER SOURCE(S): MARPAT 147:412670

L4 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1116762 CAPLUS

DOCUMENT NUMBER: 147:412669

TITLE: Hair dye composition containing a thiol/disulfide
 fluorescent dye comprising an ortho-pyridinium group
 with an uninterrupted alkylene chain and an internal
 cationic charge

INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: PCT Int. Appl., 53pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2007110536 | A2 | 20071004 | WO 2007-FR51002 | 20070323 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |

FR 2898903 A1 20070928 FR 2006-51035 20060324
 PRIORITY APPLN. INFO.: FR 2006-51035 A 20060324
 US 2006-792941P P 20060419
 FR 2007-53068 A 20070205
 US 2007-900697P P 20070212

OTHER SOURCE(S): MARPAT 147:412669

L4 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1116758 CAPLUS

DOCUMENT NUMBER: 147:412665

TITLE: Hair dye composition containing a thiol/disulfide
 fluorescent dye comprising an ortho-pyridinium group
 with an interrupted alkylene chain and an external
 cationic charge

INVENTOR(S) : Greaves, Andrew; Daubresse, Nicolas
 PATENT ASSIGNEE(S) : L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 55pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 13
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|-------------------|-----------------|------------|
| WO 2007110535 | A2 | 20071004 | WO 2007-FR51001 | 20070323 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| FR 2898903 | A1 | 20070928 | FR 2006-51035 | 20060324 |
| PRIORITY APPLN. INFO.: | | | FR 2006-51035 | A 20060324 |
| | | | US 2006-792941P | P 20060419 |
| | | | FR 2007-53067 | A 20070205 |
| | | | US 2007-900710P | P 20070212 |
| OTHER SOURCE(S) : | | MARPAT 147:412665 | | |

L4 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007:1116757 CAPLUS
 DOCUMENT NUMBER: 147:412664
 TITLE: Hair dye composition containing a thiol/disulfide fluorescent dye comprising a condensed cycle, with an internal cationic charge
 INVENTOR(S) : Greaves, Andrew; Daubresse, Nicolas
 PATENT ASSIGNEE(S) : L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 84pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 13
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2007110541 | A2 | 20071004 | WO 2007-FR51007 | 20070323 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, | | | | |

IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM

FR 2898903 A1 20070928 FR 2006-51035 20060324
 PRIORITY APPLN. INFO.: FR 2006-51035 A 20060324
 US 2006-792941P P 20060419
 FR 2007-53064 A 20070205
 US 2007-900364P P 20070209

OTHER SOURCE(S): MARPAT 147:412664

L4 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1089885 CAPLUS

DOCUMENT NUMBER: 147:412649

TITLE: Hair dye compositions comprising a disulfide
 fluorescent dye

INVENTOR(S): Samain, Henri; Daubresse, Nicolas; Greaves, Andrew

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: Fr. Demande, 92pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| FR 2898903 | A1 | 20070928 | FR 2006-51035 | 20060324 |
| WO 2007110532 | A2 | 20071004 | WO 2007-FR50998 | 20070323 |
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| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| WO 2007110533 | A2 | 20071004 | WO 2007-FR50999 | 20070323 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| WO 2007110534 | A2 | 20071004 | WO 2007-FR51000 | 20070323 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, | | | |

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WO 2007110535 A2 20071004 WO 2007-FR51001 20070323

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WO 2007110536 A2 20071004 WO 2007-FR51002 20070323

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WO 2007110537 A2 20071004 WO 2007-FR51003 20070323

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WO 2007110538 A2 20071004 WO 2007-FR51004 20070323

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 WO 2007110539 A2 20071004 WO 2007-FR51005 20070323
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 WO 2007110540 A2 20071004 WO 2007-FR51006 20070323
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 WO 2007110541 A2 20071004 WO 2007-FR51007 20070323
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 WO 2007110542 A2 20071004 WO 2007-FR51008 20070323
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 BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

| | | |
|-----------------|---|----------|
| FR 2006-51035 | A | 20060324 |
| US 2006-792941P | P | 20060419 |
| FR 2007-53064 | A | 20070205 |
| FR 2007-53065 | A | 20070205 |
| FR 2007-53066 | A | 20070205 |
| FR 2007-53067 | A | 20070205 |
| FR 2007-53068 | A | 20070205 |
| FR 2007-53070 | A | 20070205 |
| FR 2007-53071 | A | 20070205 |
| FR 2007-53072 | A | 20070205 |
| FR 2007-53073 | A | 20070205 |
| FR 2007-53075 | A | 20070205 |
| US 2007-900361P | P | 20070209 |
| US 2007-900362P | P | 20070209 |
| US 2007-900363P | P | 20070209 |
| US 2007-900364P | P | 20070209 |
| US 2007-900696P | P | 20070212 |
| US 2007-900697P | P | 20070212 |
| US 2007-900710P | P | 20070212 |
| US 2007-901319P | P | 20070215 |
| US 2007-901322P | P | 20070215 |
| US 2007-901325P | P | 20070215 |

OTHER SOURCE(S): MARPAT 147:412649

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1357157 CAPLUS

DOCUMENT NUMBER: 146:106783

TITLE: Mixtures of sulfide dyes for coloring of hair

INVENTOR(S): Cremer, Christian; Eliu, Victor Paul; Wallquist, Olof

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.;
Froehling, Beate

SOURCE: PCT Int. Appl., 187pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| WO 2006136617 | A2 | 20061228 | WO 2006-EP66325 | 20060913 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |

PRIORITY APPLN. INFO.: EP 2005-109445 A 20051011

OTHER SOURCE(S): MARPAT 146:106783

L4 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1338724 CAPLUS
 DOCUMENT NUMBER: 146:83203
 TITLE: Styryl sulfide dyes, compositions thereof and
 processes for their preparation
 INVENTOR(S): Eliu, Victor Paul; Froehling, Beate; Kauffmann,
 Dominique
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 67pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2006134043 | A2 | 20061221 | WO 2006-EP62946 | 20060607 |
| WO 2006134043 | A3 | 20071004 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA | | | |

PRIORITY APPLN. INFO.: EP 2005-105283 A 20050616
 OTHER SOURCE(S): MARPAT 146:83203

L4 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1223755 CAPLUS
 DOCUMENT NUMBER: 145:14068
 TITLE: Sulfide hair dyes
 AUTHOR(S): Anon.
 CORPORATE SOURCE: USA
 SOURCE: IP.com Journal (2005), 5(10B), 24 (No. IPCOM000130141D), 13 Oct 2005
 CODEN: IJPOBX; ISSN: 1533-0001
 PUBLISHER: IP.com, Inc.
 DOCUMENT TYPE: Journal; Patent
 LANGUAGE: English
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|------|
| IP 130141D | | 20051013 | | |

PRIORITY APPLN. INFO.: IP 2005-130141D 20051013

L4 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822985 CAPLUS
 DOCUMENT NUMBER: 141:337250

TITLE: Composition for coloring for human keratinic substances containing a fluorescent dye and a particulate sequestering agent
 INVENTOR(S): Plos, Gregory; Gourlaouen, Luc
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Fr. Demande, 35 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| FR 2853231 | A1 | 20041008 | FR 2003-4024 | 20030401 |
| WO 2004091556 | A2 | 20041028 | WO 2004-FR818 | 20040401 |
| WO 2004091556 | A3 | 20050217 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2005098763 | A1 | 20050512 | US 2004-814585 | 20040401 |
| US 7192454 | B2 | 20070320 | | |
| BR 2004005648 | A | 20050719 | BR 2004-5648 | 20040401 |
| EP 1622580 | A2 | 20060208 | EP 2004-758927 | 20040401 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK | | | | |
| JP 2006522077 | T | 20060928 | JP 2006-505773 | 20040401 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | FR 2003-4024 | A 20030401 |
| | | | US 2003-468081P | P 20030506 |
| | | | WO 2004-FR818 | W 20040401 |
| OTHER SOURCE(S): MARPAT 141:337250 | | | | |
| REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | |

L4 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822984 CAPLUS
 DOCUMENT NUMBER: 141:337249
 TITLE: Method for coloring of human keratinic substances with a fluorescent particulate compound
 INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas; Radisson, Xavier
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Fr. Demande, 53 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

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FR 2853229          A1      20041008      FR 2003-4022          20030401
WO 2004091473      A2      20041028      WO 2004-FR819        20040401
WO 2004091473      A3      20050310
  W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
      CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
      GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
      LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
      NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
      TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
  RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
      BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
      ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
      SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
      TD, TG
US 2005011018      A1      20050120      US 2004-814336        20040401
EP 1622581         A2      20060208      EP 2004-758928        20040401
EP 1622581         B1      20070328
  R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
      IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
CN 1798540         A      20060705      CN 2004-80015015      20040401
AT 357905          T      20070415      AT 2004-758928        20040401
ES 2285492         T3      20071116      ES 2004-4758928      20040401
PRIORITY APPLN. INFO.:
                                FR 2003-4022          A  20030401
                                US 2003-468103P       P  20030506
                                WO 2004-FR819          W  20040401

OTHER SOURCE(S):      MARPAT 141:337249
REFERENCE COUNT:      2      THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                        RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4  ANSWER 11 OF 30  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:      2004:822840  CAPLUS
DOCUMENT NUMBER:      141:319508
TITLE:
Composition for dyeing human keratinic fibers
comprising a fluorescent coloring agent and an
insoluble conditioning agent
INVENTOR(S):          Plos, Gregory; Samain, Henri
PATENT ASSIGNEE(S):    L'oreal, Fr.
SOURCE:                Eur. Pat. Appl., 25 pp.
                        CODEN: EPXXDW
DOCUMENT TYPE:          Patent
LANGUAGE:               French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| EP 1464328 | A1 | 20041006 | EP 2004-290871 | 20040401 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853228 | A1 | 20041008 | FR 2003-4021 | 20030401 |
| FR 2853228 | B1 | 20060714 | | |
| MX 2004PA03092 | A | 20041027 | MX 2004-PA3092 | 20040401 |
| JP 2004307503 | A | 20041104 | JP 2004-109536 | 20040401 |
| BR 2004001181 | A | 20050118 | BR 2004-1181 | 20040401 |
| US 2005076457 | A1 | 20050414 | US 2004-814337 | 20040401 |
| US 7150764 | B2 | 20061219 | | |

JP 2006335762 A 20061214 JP 2006-176604 20060627
 PRIORITY APPLN. INFO.: FR 2003-4021 A 20030401
 US 2003-468063P P 20030506
 JP 2004-109536 A3 20040401

OTHER SOURCE(S): MARPAT 141:319508

L4 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822839 CAPLUS

DOCUMENT NUMBER: 141:319507

TITLE: Composition for dyeing human keratinic fibers
 comprising a fluorescent dye and a polyol

INVENTOR(S): Plos, Gregory; Gourlaouen, Luc

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 1464327 | A1 | 20041006 | EP 2004-290870 | 20040401 |
| EP 1464327 | B1 | 20061213 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853236 | A1 | 20041008 | FR 2003-4030 | 20030401 |
| FR 2853236 | B1 | 20071012 | | |
| JP 2004315522 | A | 20041111 | JP 2004-108982 | 20040401 |
| US 2005008594 | A1 | 20050113 | US 2004-814300 | 20040401 |
| US 7204860 | B2 | 20070417 | | |
| BR 2004001182 | A | 20050118 | BR 2004-1182 | 20040401 |
| MX 2004PA03104 | A | 20050331 | MX 2004-PA3104 | 20040401 |
| AT 347874 | T | 20070115 | AT 2004-290870 | 20040401 |
| ES 2277216 | T3 | 20070701 | ES 2004-4290870 | 20040401 |
| JP 2006273866 | A | 20061012 | JP 2006-176590 | 20060627 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4030 | A 20030401 |
| | | | US 2003-468086P | P 20030506 |
| | | | JP 2004-108982 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319507

L4 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822838 CAPLUS

DOCUMENT NUMBER: 141:319506

TITLE: Hair coloring composition containing a fluorescent dye
 and an associative polymer

INVENTOR(S): Gourlaouen, Luc; Samain, Henri

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 38 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

EP 1464326 A1 20041006 EP 2004-290869 20040401
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
 FR 2853240 A1 20041008 FR 2003-4035 20030401
 JP 2004323514 A 20041118 JP 2004-108981 20040401
 BR 2004001183 A 20050118 BR 2004-1183 20040401
 US 2005031562 A1 20050210 US 2004-814305 20040401
 US 7208018 B2 20070424
 MX 2004PA03100 A 20050331 MX 2004-PA3100 20040401
 JP 2006249104 A 20060921 JP 2006-176884 20060627
 PRIORITY APPLN. INFO.: FR 2003-4035 A 20030401
 US 2003-468080P P 20030506
 JP 2004-108981 A3 20040401

OTHER SOURCE(S): MARPAT 141:319506

L4 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822837 CAPLUS
 DOCUMENT NUMBER: 141:319505
 TITLE: Hair dyeing composition containing a fluorescent dye
 and an acid
 INVENTOR(S): Plos, Gregory; Gourlaouen, Luc
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|-------------|
| EP 1464325 | A1 | 20041006 | EP 2004-290868 | 20040401 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853235 | A1 | 20041008 | FR 2003-4029 | 20030401 |
| JP 2004307501 | A | 20041104 | JP 2004-108980 | 20040401 |
| US 2004256598 | A1 | 20041223 | US 2004-814430 | 20040401 |
| US 7186278 | B2 | 20070306 | | |
| BR 2004001187 | A | 20050118 | BR 2004-1187 | 20040401 |
| MX 2004PA03098 | A | 20050331 | MX 2004-PA3098 | 20040401 |
| JP 2006298935 | A | 20061102 | JP 2006-176854 | 20060627 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4029 | A 20030401 |
| | | | US 2003-468078P | P 20030506 |
| | | | JP 2004-108980 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319505

L4 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822836 CAPLUS
 DOCUMENT NUMBER: 141:319504
 TITLE: Hair dyeing composition for human keratinic material
 comprising a fluorescent coloring agent and an
 insoluble polyorganosiloxane conditioning polymer
 INVENTOR(S): Plos, Gregory; Samain, Henri
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent

LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 1464324 | A1 | 20041006 | EP 2004-290867 | 20040401 |
| EP 1464324 | B1 | 20061108 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853238 | A1 | 20041008 | FR 2003-4033 | 20030401 |
| MX 2004PA03094 | A | 20041027 | MX 2004-PA3094 | 20040401 |
| JP 2004307499 | A | 20041104 | JP 2004-108898 | 20040401 |
| US 2005005369 | A1 | 20050113 | US 2004-814334 | 20040401 |
| US 7147673 | B2 | 20061212 | | |
| BR 2004001184 | A | 20050118 | BR 2004-1184 | 20040401 |
| AT 344656 | T | 20061115 | AT 2004-290867 | 20040401 |
| ES 2275189 | T3 | 20070601 | ES 2004-4290867 | 20040401 |
| JP 2006282673 | A | 20061019 | JP 2006-175811 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4033 | A 20030401 |
| | | | US 2003-468079P | P 20030506 |
| | | | JP 2004-108898 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319504

L4 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822835 CAPLUS
 DOCUMENT NUMBER: 141:319503
 TITLE: Fluorescent dye composition for human keratin fibers
 INVENTOR(S): Gourelaouen, Luc; Plos, Gregory
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 26 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|-------------------|-----------------|------------|
| EP 1464323 | A1 | 20041006 | EP 2004-290865 | 20040401 |
| EP 1464323 | B1 | 20061213 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853230 | A1 | 20041008 | FR 2003-4023 | 20030401 |
| FR 2853230 | B1 | 20050617 | | |
| AT 347922 | T | 20070115 | AT 2004-290865 | 20040401 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4023 | A 20030401 |
| OTHER SOURCE(S): | | MARPAT 141:319503 | | |

L4 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822834 CAPLUS
 DOCUMENT NUMBER: 141:319502
 TITLE: Use of compositions containing a fluorescent dye and an amphoteric or nonionic surfactant for dyeing human keratinic fibers with a bleaching effect
 INVENTOR(S): Pourille-Grethen, Chrystel; Plos, Gregory
 PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 29 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 1464322 | A1 | 20041006 | EP 2004-290864 | 20040401 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853239 | A1 | 20041008 | FR 2003-4034 | 20030401 |
| JP 2004307497 | A | 20041104 | JP 2004-108896 | 20040401 |
| MX 2004PA03102 | A | 20041129 | MX 2004-PA3102 | 20040401 |
| US 2005005371 | A1 | 20050113 | US 2004-814338 | 20040401 |
| US 7198650 | B2 | 20070403 | | |
| BR 2004001190 | A | 20050118 | BR 2004-1190 | 20040401 |
| JP 2006265269 | A | 20061005 | JP 2006-175770 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4034 | A 20030401 |
| | | | US 2003-468106P | P 20030506 |
| | | | JP 2004-108896 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319502

L4 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822833 CAPLUS

DOCUMENT NUMBER: 141:319501

TITLE: Hair dye composition for keratinic materials comprising a fluorescent dye and an aminosilicone

INVENTOR(S): Gourlaouen, Luc; Samain, Henri

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 1464321 | A1 | 20041006 | EP 2004-290863 | 20040401 |
| EP 1464321 | B1 | 20061206 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853233 | A1 | 20041008 | FR 2003-4027 | 20030401 |
| FR 2853233 | B1 | 20071005 | | |
| JP 2004307496 | A | 20041104 | JP 2004-108822 | 20040401 |
| BR 2004001188 | A | 20050118 | BR 2004-1188 | 20040401 |
| US 2005031563 | A1 | 20050210 | US 2004-814428 | 20040401 |
| US 2006078517 | A9 | 20060413 | | |
| MX 2004PA03101 | A | 20050331 | MX 2004-PA3101 | 20040401 |
| AT 347350 | T | 20061215 | AT 2004-290863 | 20040401 |
| ES 2276241 | T3 | 20070616 | ES 2004-4290863 | 20040401 |
| JP 2006273865 | A | 20061012 | JP 2006-175750 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4027 | A 20030401 |
| | | | US 2003-468107P | P 20030506 |
| | | | JP 2004-108822 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319501

L4 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822832 CAPLUS
 DOCUMENT NUMBER: 141:319500
 TITLE: Brightening compositions comprising a fluorescent dye
 and a polymer thickener for human keratinic matter
 INVENTOR(S): Plos, Gregory; Gourlaouen, Luc
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 27 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 1464320 | A1 | 20041006 | EP 2004-290862 | 20040401 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853234 | A1 | 20041008 | FR 2003-4028 | 20030401 |
| FR 2853234 | B1 | 20071012 | | |
| JP 2004307495 | A | 20041104 | JP 2004-108821 | 20040401 |
| US 2005008593 | A1 | 20050113 | US 2004-814236 | 20040401 |
| US 7250064 | B2 | 20070731 | | |
| BR 2004001189 | A | 20050125 | BR 2004-1189 | 20040401 |
| MX 2004PA03099 | A | 20050331 | MX 2004-PA3099 | 20040401 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4028 | A 20030401 |
| | | | US 2003-468108P | P 20030506 |

OTHER SOURCE(S): MARPAT 141:319500

L4 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:822831 CAPLUS
 DOCUMENT NUMBER: 141:319499
 TITLE: Hair dye preparation comprising a fluorescent dye and
 cationic polymer
 INVENTOR(S): Plos, Gregory; Samain, Henri
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 31 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| EP 1464319 | A1 | 20041006 | EP 2004-290860 | 20040401 |
| EP 1464319 | B1 | 20060802 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853232 | A1 | 20041008 | FR 2003-4026 | 20030401 |
| FR 2853232 | B1 | 20050617 | | |
| JP 2004307494 | A | 20041104 | JP 2004-108820 | 20040401 |
| MX 2004PA03091 | A | 20041129 | MX 2004-PA3091 | 20040401 |
| US 2004258641 | A1 | 20041223 | US 2004-814335 | 20040401 |

US 7195651 B2 20070327
 BR 2004001185 A 20050118 BR 2004-1185 20040401
 AT 334721 T 20060815 AT 2004-290860 20040401
 ES 2268588 T3 20070316 ES 2004-4290860 20040401
 PRIORITY APPLN. INFO.: FR 2003-4026 A 20030401
 US 2003-467548P P 20030505

OTHER SOURCE(S): MARPAT 141:319499

L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822830 CAPLUS

DOCUMENT NUMBER: 141:319498

TITLE: Process for dyeing human keratinic fibers with a brightening effect, wherein the fibers had undergone a permanent wave treatment and wherein a composition comprising a fluorescent dye is applied

INVENTOR(S): Plos, Gregory; Samain, Henri

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 1464318 | A1 | 20041006 | EP 2004-290866 | 20040401 |
| EP 1464318 | B1 | 20061011 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| FR 2853237 | A1 | 20041008 | FR 2003-4031 | 20030401 |
| FR 2853237 | B1 | 20060714 | | |
| JP 2004307498 | A | 20041104 | JP 2004-108897 | 20040401 |
| US 2005005368 | A1 | 20050113 | US 2004-814333 | 20040401 |
| US 7195650 | B2 | 20070327 | | |
| BR 2004001191 | A | 20050118 | BR 2004-1191 | 20040401 |
| MX 2004PA03096 | A | 20050331 | MX 2004-PA3096 | 20040401 |
| AT 342042 | T | 20061115 | AT 2004-290866 | 20040401 |
| ES 2273179 | T3 | 20070501 | ES 2004-4290866 | 20040401 |
| JP 2006249103 | A | 20060921 | JP 2006-175856 | 20060626 |
| PRIORITY APPLN. INFO.: | | | FR 2003-4031 | A 20030401 |
| | | | US 2003-468104P | P 20030506 |
| | | | JP 2004-108897 | A3 20040401 |

OTHER SOURCE(S): MARPAT 141:319498

L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:286164 CAPLUS

DOCUMENT NUMBER: 126:265147

TITLE: 1,8-Naphthylene chain-linked fluorescent cyanine dyes

INVENTOR(S): Kato, Takashi; Okazaki, Kyoji

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|------------|
| JP 09048923 | A | 19970218 | JP 1996-95838 | 19960327 |
| PRIORITY APPLN. INFO.: | | | JP 1995-154136 | A 19950530 |
| OTHER SOURCE(S): | MARPAT 126:265147 | | | |

L4 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992:131150 CAPLUS
 DOCUMENT NUMBER: 116:131150
 TITLE: Synthesis of some bischromophoric dyes containing a nonabsorbing flexible bridge
 AUTHOR(S): Mishra, J. K.; Behera, P. K.; Parida, S. K.; Mishra, B. K.
 CORPORATE SOURCE: Cent. Stud. Surf. Sci. Technol., Sambalpur Univ., Jyoti Vihar, 768 019, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(2), 118-22
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L4 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1985:561854 CAPLUS
 DOCUMENT NUMBER: 103:161854
 TITLE: Reaction of quinaldine with polymethylene glycol bis(p-toluenesulfonates)
 AUTHOR(S): Mushkalo, I. L.; Sogulyaev, Yu. A.; Tolmachev, A. I.
 CORPORATE SOURCE: Inst. Org. Khim., Kiev, 252660, USSR
 SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1985), (5), 706-7
 CODEN: KGSSAQ; ISSN: 0453-8234
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 103:161854

L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1979:509008 CAPLUS
 DOCUMENT NUMBER: 91:109008
 ORIGINAL REFERENCE NO.: 91:17599a,17602a
 TITLE: Methine dyes
 INVENTOR(S): Degen, Hans Juergen; Feichtmayr, Franz; Grychtol, Klaus
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 31 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| DE 2754403 | A1 | 19790613 | DE 1977-2754403 | 19771207 |
| DE 2754403 | C2 | 19870527 | | |
| FR 2411219 | A1 | 19790706 | FR 1978-33522 | 19781128 |

| | | | | |
|------------------------|----|----------|-----------------|-------------|
| FR 2411219 | B1 | 19830923 | | |
| CH 639114 | A5 | 19831031 | CH 1978-12364 | 19781204 |
| JP 54086521 | A | 19790710 | JP 1978-150129 | 19781206 |
| JP 62049311 | B | 19871019 | | |
| GB 2011457 | A | 19790711 | GB 1978-47324 | 19781206 |
| GB 2011457 | B | 19820526 | | |
| US 4256458 | A | 19810317 | US 1979-50527 | 19790621 |
| PRIORITY APPLN. INFO.: | | | DE 1977-2754403 | A 19771207 |
| | | | US 1978-964148 | A3 19781128 |

L4 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1972:553892 CAPLUS
 DOCUMENT NUMBER: 77:153892
 ORIGINAL REFERENCE NO.: 77:25295a,25298a
 TITLE: Polynuclear azaaromatic compounds. III. Derivatives of 1,5-diazaanthracene, 1,8- and 1,5-diazaphenanthrenes, and 1,5-diazanaphthalene
 AUTHOR(S): El'tsov, A. V.; Nekrasov, S. V.; Smirnov, E. V.
 CORPORATE SOURCE: Leningr. Tekhnol. Inst. im. Lensovet, Leningrad, USSR
 SOURCE: Zhurnal Organicheskoi Khimii (1972), 8(6), 1309-20
 CODEN: ZORKAE; ISSN: 0514-7492
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1972:516064 CAPLUS
 DOCUMENT NUMBER: 77:116064
 ORIGINAL REFERENCE NO.: 77:19131a,19134a
 TITLE: Photographic dyes derived from 4,6-diaryl picolinium salts
 INVENTOR(S): Brooker, Leslie G. S.; Daniel, Daniel S.; Taber, Robert C.
 PATENT ASSIGNEE(S): Eastman Kodak Co.
 SOURCE: U.S., 10 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| ----- | ---- | ----- | ----- | ----- |
| US 3639127 | A | 19720201 | US 1970-57831 | 19700723 |
| CA 981516 | A1 | 19760113 | CA 1971-114489 | 19710601 |
| FR 2103210 | A5 | 19720407 | FR 1971-26828 | 19710722 |
| GB 1366506 | A | 19740911 | GB 1971-34419 | 19710722 |
| PRIORITY APPLN. INFO.: | | | US 1970-57831 | A 19700723 |

L4 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1972:436363 CAPLUS
 DOCUMENT NUMBER: 77:36363
 ORIGINAL REFERENCE NO.: 77:6041a,6044a
 TITLE: Synthesis and spectra of bisquaternary quinaldinium salts
 AUTHOR(S): Chernyuk, I. N.; Rogovik, L. I.; Pilyugin, G. T.
 CORPORATE SOURCE: USSR
 SOURCE: Zhurnal Organicheskoi Khimii (1972), 8(2), 397-400

DOCUMENT TYPE: CODEN: ZORKAE; ISSN: 0514-7492
Journal
LANGUAGE: Russian

L4 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:518250 CAPLUS
DOCUMENT NUMBER: 75:118250
ORIGINAL REFERENCE NO.: 75:18669a,18672a
TITLE: Polynuclear azaaromatic compounds. II. Derivatives
of diazachrysenes
AUTHOR(S): El'tsov, A. V.; Nekrasov, S. V.
CORPORATE SOURCE: Leningr. Tekhnol. Inst. im. Lensoveta, Leningrad, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1971), 7(7), 1525-33
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian

L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1950:24498 CAPLUS
DOCUMENT NUMBER: 44:24498
ORIGINAL REFERENCE NO.: 44:4809f-i,4810a-f
TITLE: Photographic sensitizing dyes
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| GB 622223 | | 19490428 | GB 1946-12650 | 19460426 |

=> d 14 abs hitstr 22-30

L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
GI

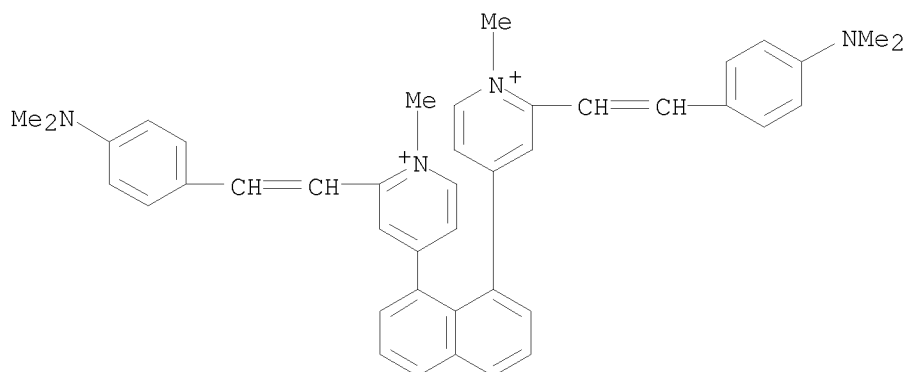
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title dyes have the general formula I (m, n = 0-3; R1-12 = H or
substituent; R13, R14 = alkyl; L1-6 = methine chain; E1, E2 = auxiliary
chromophore; X1 = counter ion). II was prepared in 64% yield from
4,4'-(1,8-naphthylene)bis(1,2-dimethylpyridinium iodide) and
N-methyl-2-(methylthio)benzothiazolium p-toluenesulfonate.
IT 188821-11-6P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(naphthylene chain-linked fluorescent cyanine dyes)
RN 188821-11-6 CAPLUS
CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-
(dimethylamino)phenyl]ethenyl]-1-methyl-, diperchlorate (9CI) (CA INDEX
NAME)

CM 1

CRN 188821-10-5

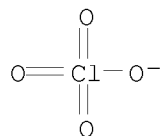
CMF C42 H42 N4



CM 2

CRN 14797-73-0

CMF Cl O4



L4 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

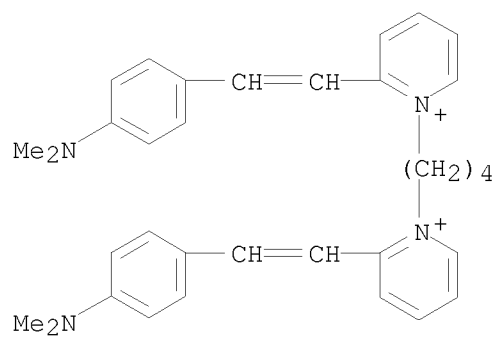
AB Bis-chromophoric dyes having nonabsorbing flexible bridges have been synthesized by the condensation of 1,1'-alkylenebis(α/γ -picolinium bromides) with benzaldehyde derivs. or cinnamaldehyde.

IT 71068-06-9P 139537-25-0P 139537-26-1P
139537-27-2P

RL: MSC (Miscellaneous); SPN (Synthetic preparation); PREP (Preparation)
(dyes, preparation and absorption spectra of)

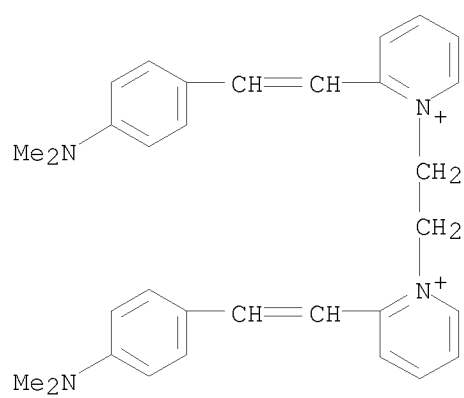
RN 71068-06-9 CAPLUS

CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



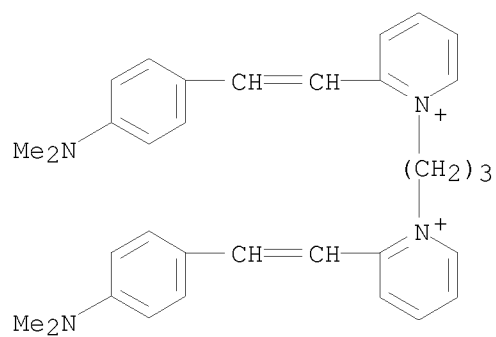
● 2 Br⁻

RN 139537-25-0 CAPLUS
 CN Pyridinium, 1,1'-(1,2-ethanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



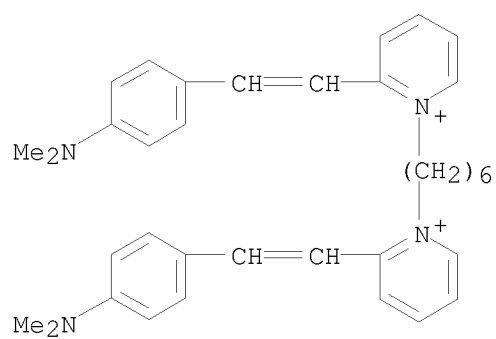
● 2 Br⁻

RN 139537-26-1 CAPLUS
 CN Pyridinium, 1,1'-(1,3-propanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



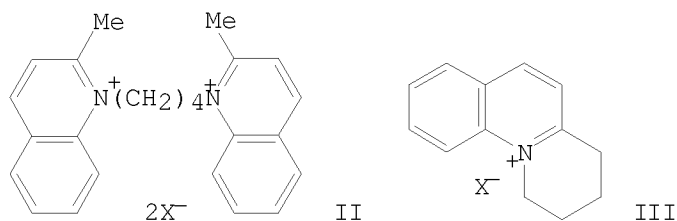
● 2 Br⁻

RN 139537-27-2 CAPLUS
 CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

L4 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 GI



AB Heating quinaldine [91-63-4] with p-MeC₆H₄SO₃(CH₂)_nO₃SC₆H₄Me-p (I, n = 4) [4724-56-5] gave II (X = p-MeC₆H₄SO₃) [98570-07-1], whereas heating quinaldine with I (n = 3) [5469-66-9] gave III (X = p-MeC₆H₄SO₃) [98570-08-2]. Condensation of II (X = p-MeC₆H₄SO₃) or III (X = ClO₄) [34624-17-4] with p-(dimethylamino)benzaldehyde [100-10-7] gave styryl dyes.

IT 98570-03-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

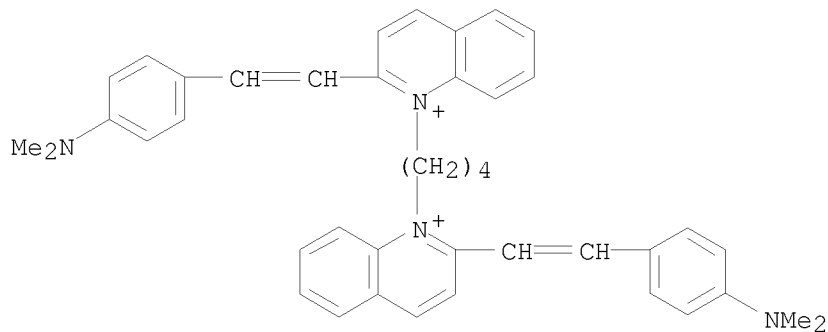
RN 98570-03-7 CAPLUS

CN Quinolinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 98570-02-6

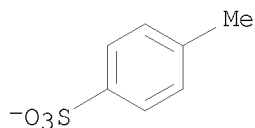
CMF C42 H44 N4



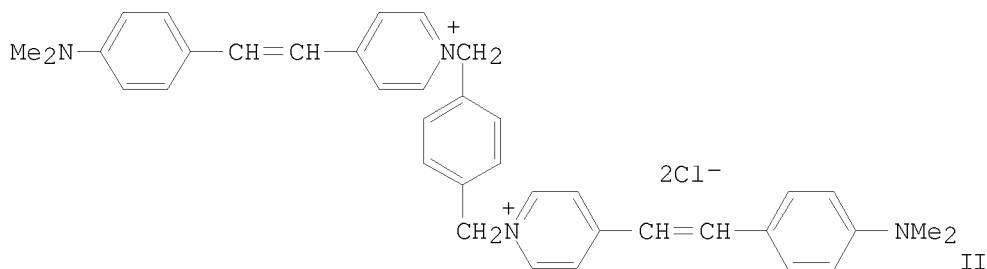
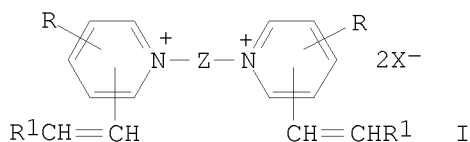
CM 2

CRN 16722-51-3

CMF C7 H7 O3 S



L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
GI



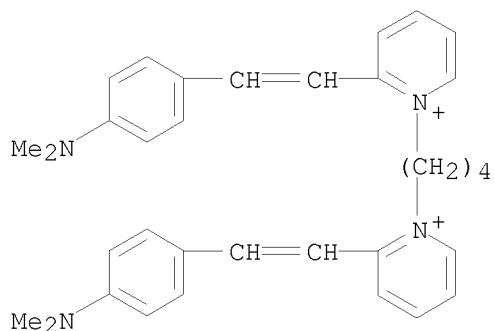
AB Substantive yellow to bluish red paper dyes having the general structure I are prepared, where R = H, Me, or Et, R1 = aryl or heteroaryl, Z = alkylene or arylenedimethylene, X- = anion, and the methine groups are in α - or γ -position. Thus, reaction of p-(dimethylamino)benzaldehyde [100-10-7] with 1,1'-(p-xylylene)bis(4-methylpyridinium chloride) [71068-00-3] in refluxing HOAc gave II [71068-16-1], a red powder which dyed bleached sulfite pulp red shades. Other I were similarly prepared

IT 71068-06-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of, as dye for paper)

RN 71068-06-9 CAPLUS

CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

L4 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 AB 2,6-Dimethyl-1,5-diazaanthracene [36749-62-9], 2,7-dimethyl-1,8-diazaphenanthrene [36749-63-0], 2,6-dimethyl-1,5-diazaphenanthrene [36749-64-1], and 2,6-dimethyl-1,5-diazanaphthalene [36749-65-2] were prepared by reaction of p-C₆H₄(NH₂)₂ with pyruvic acid followed by decarboxylation, p-C₆H₄(NH₂) with crotonaldehyde, m-C₆H₄(NH₂)₂ with paraldehyde, and 2-methyl-5-aminopyridine with crotonaldehyde, resp., and were N-methylated to give monoazonia and diazonia salts. The condensation of these salts with 4-Me₂NC₆H₄CHO in Ac₂O solution gave 6-(p-dimethylaminostyryl)-2,5-dimethyl-1-aza-5-azonianthracene perchlorate [I, R = CHC₆H₄NMe₂-p (Q)] [36749-66-3], 2,6-bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazonanthracene diperchlorate (II, R = Q) [36749-67-4], 7-(p-dimethylaminostyryl)-2,8-dimethyl-1-aza-8-azoniaphenanthrene perchlorate (III, R = Q) [36749-68-5], 2,7-bis(p-dimethylaminostyryl)-1,8-dimethyl-1,8-diazoniaphenanthrene diperchlorate [36749-69-6], 6-(p-dimethylaminostyryl)-2,5-dimethyl-1-aza-5-azonianaphthalene iodide (IV, R = Q) [36749-70-9], and 2,6-bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazonianaphthalene diperchlorate [36749-71-0]. Similarly, I-IV with R = NC₆H₄NMe₂-p were prepared by condensing the monoazonia or diazonia salts with p-nitrosodimethylaniline. The uv and ir spectra of these compds. show the effects of the length of the conjugated chromophore.

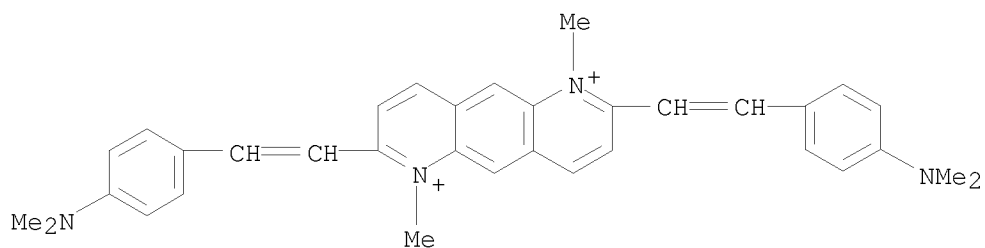
IT 36749-67-4P 36749-69-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 36749-67-4 CAPLUS

CN Pyrido[2,3-g]quinolinium, 2,7-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,6-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

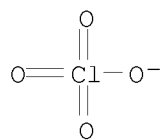
CRN 47801-45-6
 CMF C34 H36 N4



CM 2

CRN 14797-73-0

CMF C1 O4



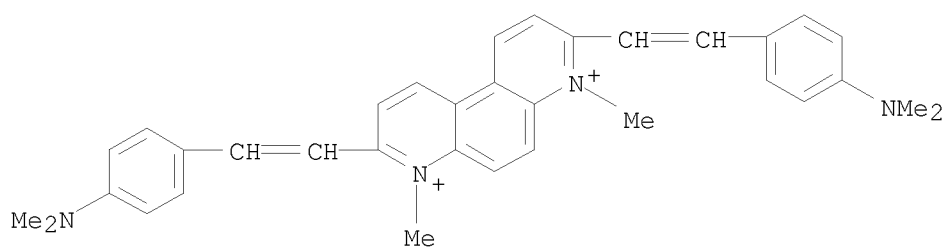
RN 36749-69-6 CAPLUS

CN 4,7-Phenanthroline, 3,8-bis[2-[4-(dimethylamino)phenyl]ethynyl]-4,7-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47799-32-6

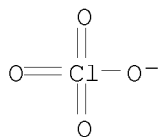
CMF C34 H36 N4



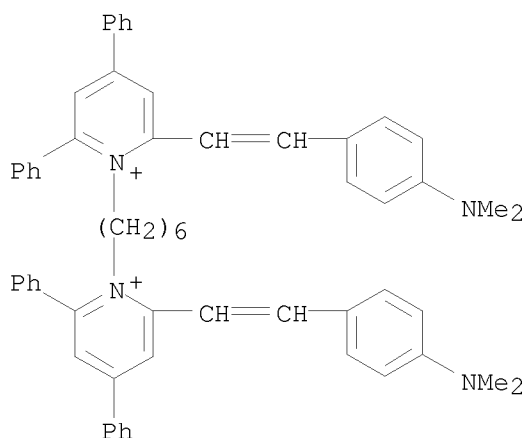
CM 2

CRN 14797-73-0

CMF C1 O4



L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 AB Forty-six cyanine, styryl, and merocyanine dyes, some of which are sensitizers and others desensitizers for Ag halide emulsions, were prepared from 2-picolinium salts (I, Z = N; R = Ph, p-MeOC₆H₄, p-ClC₆H₄, 3,4-Cl₂C₆H₃; Y = R, Et₂NCH₂CH₂, p-Et₂NC₆H₄, p-ClC₆H₄, HOCH₂CH₂, Et₂NCH₂CH₂CH₂, MeNH, p-PhN:NC₆H₄). I (Z = N) were prepd from I (Z = O) and the appropriate amines. For example, a mixt of I (Z = N; R = Y = Ph), 3-O₂NC₆H₄CHO, and piperidine in EtOH was refluxed for 1 hr to give styryl dye II [36139-45-4]. Other typical dyes included cyanine dye III [36079-54-6] and merocyanine dye IV [36139-46-5].
 IT 38128-33-5P
 RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
 RN 38128-33-5 CAPLUS
 CN Pyridinium, 1,1'-(1,6-hexanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl-, diiodide (9CI) (CA INDEX NAME)



● 2 I⁻

L4 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 AB Reaction of 4,4'-bis(benzylamino)biphenyl with H₂C:CHOAc in HCl solution and treatment with NaClO₄ gave 1,1'-dibenzyl-6,6'-bisquinoldinium diperchlorate (I) [35108-81-7] the uv spectrum of which has a maximum at a longer wavelength (λ) than the maximum of 1-benzylquinoldinium perchlorate due to the conjugation of 2 quinoldinium rings. I has 2 active Me groups and it can be converted to quinaldine dyes, such as

6,6'-bis[(1-benzylquinolyl-2)-(1"-phenyl-quinolyl-2")trimethinecyanine] diperchlorate (II) [35210-43-6], 6,6'-bis[(1-benzylquinolyl-2)-(1"-phenyl-quinolyl-4")trimethinecyanine] diperchlorate [35210-44-7], or 6,6'-bis[(1-benzylquinolyl-2)-(3"-ethylbenzothiazolyl-2")trimethinecyanine] diperchlorate [35210-45-8].

IT 36840-77-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 36840-77-4 CAPLUS

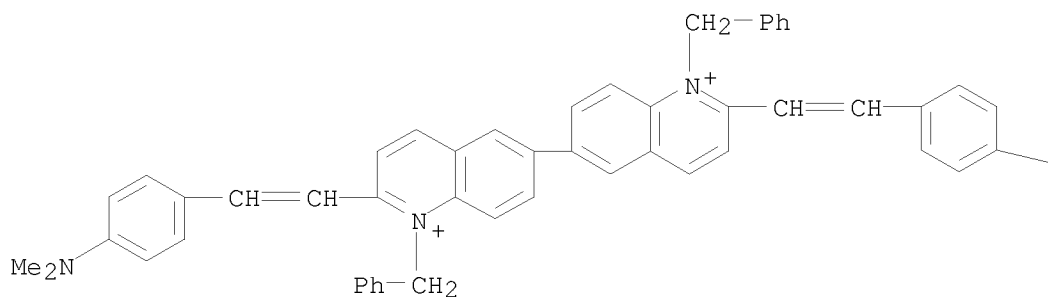
CN 6,6'-Biquinolinium, 2,2'-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,1'-bis(phenylmethyl)-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47893-52-7

CMF C52 H48 N4

PAGE 1-A



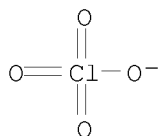
PAGE 1-B

—NMe₂

CM 2

CRN 14797-73-0

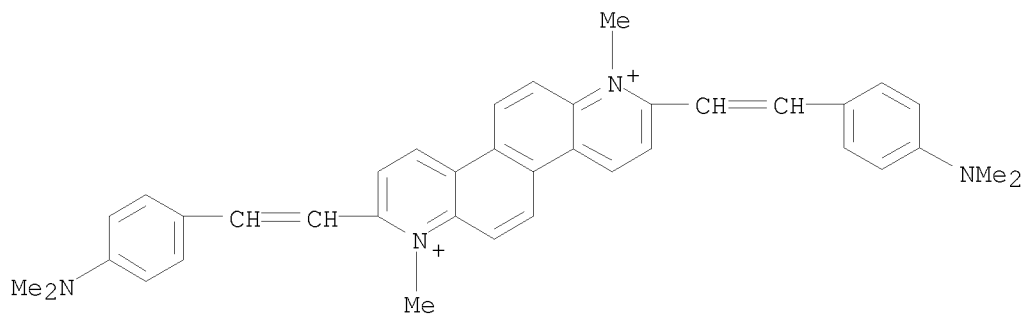
CMF C1 O4



L4 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN
 AB Comparison of the pKa values for 2,8-dimethyl-1,7- and
 3,9-dimethyl-4,10-diazachrysene, 1,2,8-trimethyl-7-aza-1-azoniachrysene
 perchlorate, and quinaldine showed small interactions between the pyridine
 and pyridinium nuclei across the 2 benzene nuclei. The corresponding
 methylated bis(quaternary salts) added Grignard reagents ortho to the N
 atoms, and gave the corresponding bis(styryls) and bis(azastyryls) with
 p-Me2NC6H4CHO and p-Me2NC6H4NO, resp.
 IT 33657-22-6P 33697-38-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 33657-22-6 CAPLUS
 CN Quino[6,5-f]quinolinium, 2,8-bis[p-(dimethylamino)styryl]-1,7-dimethyl-,
 diperchlorate (8CI) (CA INDEX NAME)

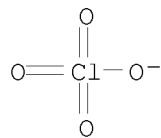
CM 1

CRN 47832-42-8
 CMF C38 H38 N4



CM 2

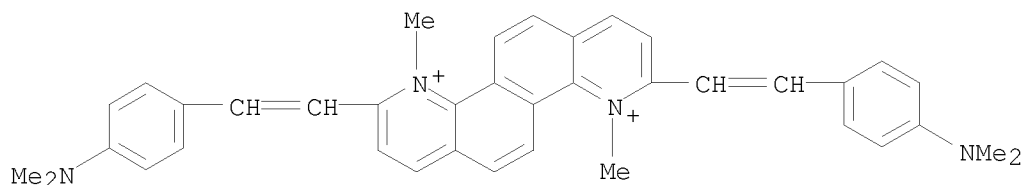
CRN 14797-73-0
 CMF C1 O4



RN 33697-38-0 CAPLUS
 CN Quino[8,7-h]quinolinium, 3,9-bis[p-(dimethylamino)styryl]-4,10-dimethyl-,
 diperchlorate (8CI) (CA INDEX NAME)

CM 1

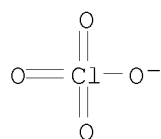
CRN 47832-28-0
 CMF C38 H38 N4



CM 2

CRN 14797-73-0

CMF Cl O4



L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

GI For diagram(s), see printed CA Issue.

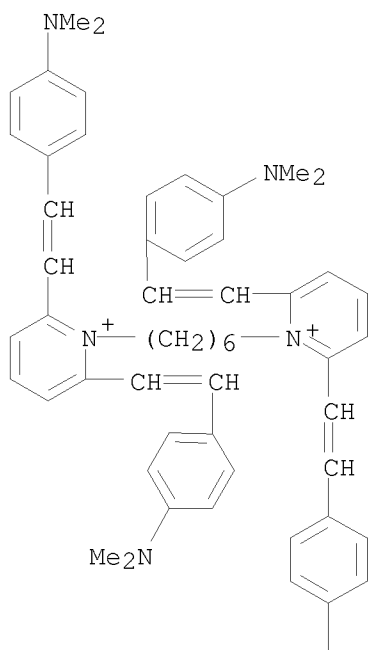
AB Styryl dyes containing 2 or more styryl dye nuclei per mol. are prepared by condensing (1) a p-tertiary-amino aromatic aldehyde containing at least 2 reactive aldehyde groups with (2) a quaternary salt of heterocyclic N compound containing at least 1 reactive Me group in the α -or γ -position to a quaternary N atom. The condensation is effected in weakly basic solution particularly in the presence of amines such as EtNH₂, piperidine, which have a dissociation constant greater than pyridine.

1,4-Bis(p-formylphenyl)piperazine (I) 1 g. and 2.08 g. 2-methylbenzothiazole ethiodide (II) were dissolved in 50 cc. boiling alc., 3 drops piperidine added, the mixture refluxed for 1 hr., chilled in an ice bath, and filtered to give the red dye, N,N'-diethylenebis(2-p-aminostyrylbenzothiazole ethiodide). I and 2-methylbenzoselenazole ethiodide (III) give N,N'-diethylenebis(2-p-aminostyrylbenzoselenazole ethiodide). N,N'-Methylenebis(p-methylaminobenzaldehyde) (IV) 1 g. and 2.5 g. III in 25 cc. EtOH with 3 drops piperidine, after refluxing gave a deep purple dye, N,N'-methylenebis(p-methylaminostyrylbenzoselenazole ethiodide). IV and II give N,N'-methylenebis(p-methylaminostyrylbenzothiazole ethiodide). (p-OHCC₆H₄)₂NMe and II gave methylbis(p-styrylbenzothiazole ethiodide)amine, a deep red powder. N,N'-Ethylenebis(p-ethylaminobenzaldehyde) and II give N,N'-ethylenebis(p-ethylaminostyrylbenzothiazole ethiodide). Tris(p-formylphenyl)amine and II give black crystals of tris[p-(2-benzylidenemethyl)benzothiazole ethiodide]amine. The corresponding Se compound is a purple dye. N,N'-Ethylenebis(p-ethylaminobenzaldehyde) and hexamethylenebis(2-methylbenzothiazole) dibromide give a polymeric dye of the structure (V). In Brit. 622,272, similar styryl dyes are obtained by condensing 1 mol. of an alkylenebis-(quaternary salt) of a heterocyclic N compound having 2 heterocyclic N nuclei linked through the quaternary N atoms by an alkylene group and having a reactive Me group in the α -or γ -position

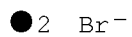
to each heterocyclic N atom with 2 mols. of a p-tertiary-amino aromatic aldehyde containing a single reactive aldehyde group. Hexamethylenebis(2-methylbenzothiazole) dibromide 2 (prepared from hexamethylene dibromide 9.8 and 2-methylbenzothiazole 14 parts) and 1.1 parts p-Me₂NC₆H₄CHO in 50 cc. alc. was heated to boiling, 2 drops piperidine added, and refluxing continued for 1 hr. to give hexamethylenebis(2-p-dimethylaminostyrylbenzothiazole) dibromide, a deep red dye. In Brit. 622,273, 4 mols. of a p-tertiary-amino aromatic aldehyde containing a single aldehyde group are condensed with 1 mol. of an alkylenebis(quaternary salt) of a heterocyclic N compound having 2 heterocyclic N nuclei linked through the quaternary N atoms by an alkylene group and having at least 2 reactive Me groups in α -or γ -position to each quaternary N atom. Hexamethylenebis(2,6-lutidine)dibromide and p-Me₂NC₆H₄CHO give a deep red dye of the formula [2,6-(p-Me₂NC₆H₄CH:CH)2C₅H₃N(Br)CH₂CH₂CH₂]₂. Trimethylenebis(2,4-lutidine) dibromide and p-Me₂NC₆H₄CHO give [2,4-(p-Me₂NC₆H₄CH:CH)2C₅H₃N(Br)CH₂]₂CH₂. Cf. C.A. 43, 2232i.

IT 856962-32-8P, Pyridinium, 1,1'-hexamethylenebis[2,6-bis(p-dimethylaminostyryl)- bromide] 856965-40-7P, Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- bromide]
 RL: PREP (Preparation)
 (preparation of)
 RN 856962-32-8 CAPLUS
 CN Pyridinium, 1,1'-hexamethylenebis[2,6-bis(p-dimethylaminostyryl)- bromide]
 (5CI) (CA INDEX NAME)

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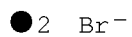
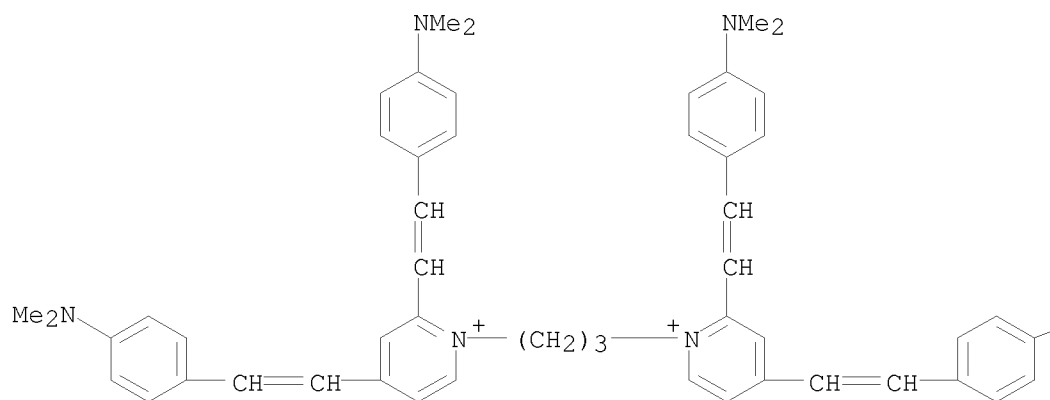


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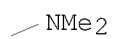


RN 856965-40-7 CAPLUS
 CN Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- bromide]
 (5CI) (CA INDEX NAME)

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11/28/2007

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

115.98

377.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-10.14

-10.14

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:29:57 ON 28 NOV 2007